Textile Industries

Formerly "COTTON"

a W. R. C. Smith publication

APRIL, 1954

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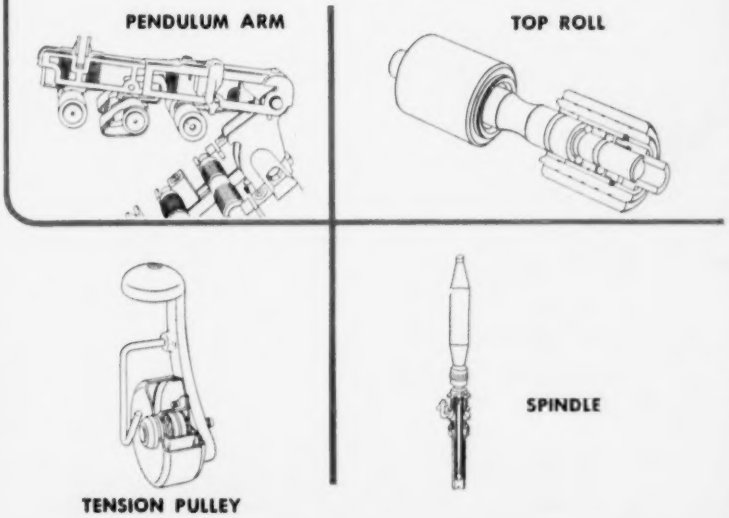
SKF®

To Display 4 Important Textile Bearing Specialties at the

TEXTILE MACHINERY SHOW

ATLANTIC CITY APRIL 26-30

. . . Turn to pages 14 and 15 for the details.



You will want more than Cold Cash IN 1954

No matter which way things are heading in '54, your business will benefit if you ask yourself these two questions—and then act accordingly.

1 Have you recently looked at what your present source of ready capital gives you—beyond cold cash?

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Contact Officers

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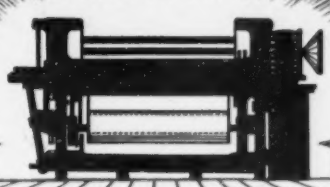

MAJOR IMPROVEMENTS

Which ensure Lower Weaving Costs

Models XL, E, XD, XP, 3 X2's

TEXTILE MACHINERY EXHIBITION — ATLANTIC CITY APRIL 26-30 1954 — AMERICAN ASSOCIATION

Don't miss the Draper Exhibit in space No. 222

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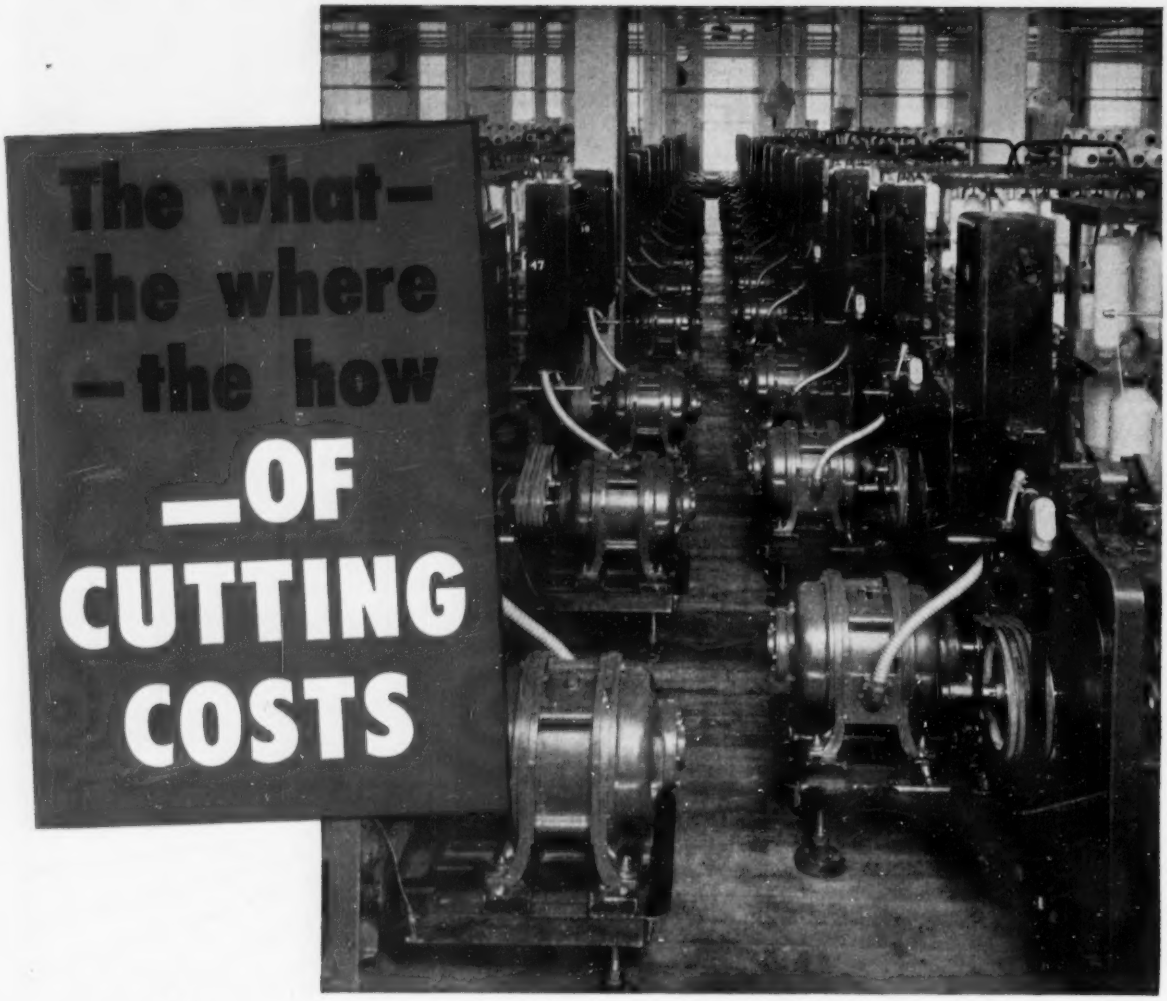

WHAT costs can be cut? Maintenance costs, power costs, lubrication costs.

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TEXACO Lubricants

FOR THE TEXTILE INDUSTRY

TUNE IN . . . METROPOLITAN OPERA radio broadcasts every Saturday afternoon. See newspaper for time and station

ABC NBP BPA

Textile Industries

Vol. 118, No. 4
April, 1954

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EDITORIAL AND EXECUTIVE OFFICES: 806 Peachtree St., N. E., Atlanta 5, Georgia

John C. Fonville ..... *Editor*

Associates

J. Frank Guest — Milton C. May
H. B. Anderson — H. Candler

George H. Dockray *(P. O. Box 602, Shelby, N. C.)*
Leon E. Seidel *(22 East 93rd St., New York 28)*

John C. Cook ..... *Business Manager*
Walter M. Mitchell, Jr. ..... *Assistant*

Business Representatives in U. S. A.

BOSTON—Arthur C. Shaw, *11 Monroe Rd., Wellesley Hills, Mass. (Phone: Wellesley 5-3648).*
NEW YORK—William K. Hoffman, *58 Euclid Ave., Maplewood, N. J. (Phone: South Orange 2-2484).*
PHILADELPHIA — George Isherood, *413 Alexander Ave., Drexel Hill, Pa. (Clearbrook 9-4536).*
CHICAGO—Maynard L. Durham, *333 North Michigan Ave., Chicago 1, Ill. (Phone: Central 6-6964).*
CLEVELAND—A. E. C. Smith, *P. O. Box 3054, Cleveland 17, Ohio (Phone: Cherry 1-7352).*
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CHARLOTTE—W. Cliff Rutland, *Box 102, Gastonia, N. C. (Phone 7995).*
LOS ANGELES—L. B. Chappell, *6399 Wilshire Boulevard, Los Angeles 48, Calif. (Webster 3-9241).*

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Shorts and Remnants

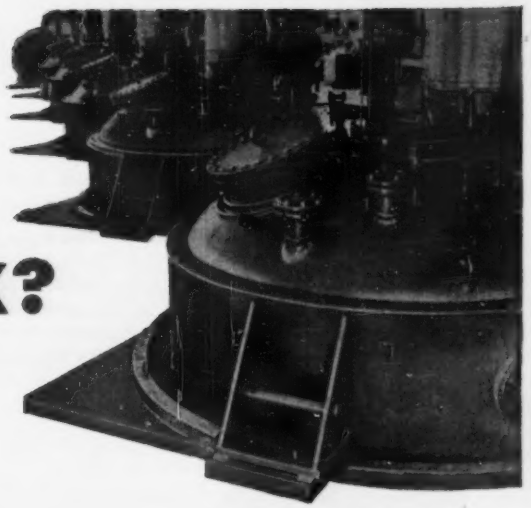
► Well, the big Atlantic City Show is to come off the last week of this month, and if you don't get there with your key men, don't blame us. We've sounded the alarm often enough. So you won't get lost, you'll find a loosely inserted floor plan of Exhibition Hall which you can tuck away until show time. Usually we bind the magazine together, but knowing the loss of strength incurred at various conventions, we couldn't put you to the effort of tearing the thing out of TI. By way of reminder, take an extra traveling bag along to tote all the technical literature and souvenirs home.

► Our preview of the Atlantic City Show gives an indication of what you will see and whom you will meet there—but from experience we know there'll be some other surprises. One fellow who was looking for a way to clean his ceilings visited just such an exhibition, and what should he find but ceilings that could be taken down for easy washing. Another discovered paint brushes that cover both sides of a fence with a single stroke. Rumors have it that a new electronic push button machine permits the janitor to make decisions on production, finance, and sales, eliminating the overhead of maintaining company officials.

► Never know what you'll find if you just look. A Yankee chemist who had spent his time working on the newer man-made fibers accepted a job in Dixie. He rushed into the lab one day yelling, "Eureka, I've found it. The best and cheapest all-around miracle fiber is growing around here like weeds. The natives call it 'COTTON.'"

► Some things, though, are a matter of interpretation. Like the honeymooning couple, who, while sightseeing, read the sign: "Airplane rides all week, only $2." But they didn't want to stay up in an airplane all week.

► Or like the mill president who carried a classified advertisement for a "Georgia Tech textile graduate, or his equivalent." One answer to the ad: What do you mean by "equiva-



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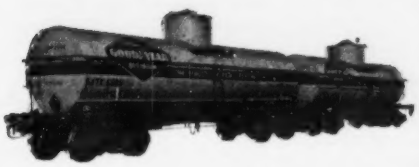

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Goodyear, Chemical Division, Akron 16, Ohio

LOOK AT THESE LATICES

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Butadiene-acrylonitrile copolymers

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High solids content

Three types of stabilization

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High solids content

Pliolite Latices–"100" Series
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VINYL TYPE:

Pliovic Latices–"300" Series
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CDF TEXTILE NEWS

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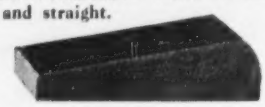

PARALLEL PLUGS New and better! Made from molded Celoron, plug needs no lubrication, lasts for years, will not delaminate, splinter, fracture, or soften.

CLOTH ROLL BLOCKS
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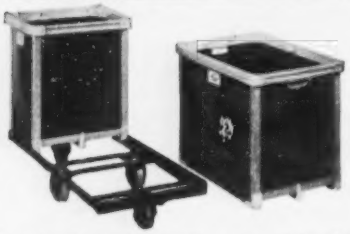

Two durable C-D-F Diamond Vulcanized Fibre boxes combined with a strong, easy-running truck. Smooth surfaces inside and out. C-D-F Fibre is lightweight, rugged, scuff-proof . . . lasts for years without maintenance. Low cost, attractive, amazingly strong and practical. Raised steel platform doffing trucks are also available; cross cleats in the undercarriage greatly strengthen the angle iron frame in this type truck.

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Shorts and Remnants

lent," two Clemson men or one Auburn man working half-time?

► Note that there are more ways than one to do a job, such as reducing your inventory. A well-known mill had a surplus of bag goods that wouldn't move, no matter the price. Solution: The mill manager bought a carload of peanuts and gave them to his friends in the surplus bags.

► For the news release of the month we select the one beginning "There's some good news for those 94% of employees whose noses know an industrial stink when they smell one. . . " The fellow was selling odor counteractants and could demonstrate how factory odors can be successfully annihilated.

► With apologies to our radio friends, we'll ask the question: "Do

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( ) Profits from Effective Textile Machinery Lubrication (six articles; opening through slashing)
( ) How Loom Fixers are Trained at the Bibb
( ) Preventive Maintenance Program at Dan River Mills
( ) Waste Reduction and Control
( ) The Employee Publication
( ) The Eyes Have It (color conditioning)
( ) Correcting Range Values on the Uster Tester
( ) Wamsutta's New Waste Control Program
( ) Double-Trumpet Spinning
( ) Clean Up with Clean Bobbins!
( ) A Simple Cotton Fiber Testing Laboratory for Mills
( ) The Marvel Mending Method for Full-Fashioned Hosiery
( ) How a Texas Hosiery Mill Cut Box Stemping Time in Half
( ) Caustic Bath Density and Level Controller (mercerizing)
( ) Warp Knit Nylon Shoe Cloth
( ) They Are Watching You (quality control)
( ) Mill Reports on the SRRL Opener
( ) Bulk Starch Handling at Avondale
( ) Boost Spinning Production 22%
( ) Quiet Please! Warp Knitters Producing
( ) New Textile Fibers Created by Reaction of Cotton with Acrylonitrile
( ) The Flammable Fabrics Act
( ) Visual Aids for the Textile Industry
( ) Labor and Management Benefit by Industrial Engineering Principles
( ) Training Men for Key Positions in the Textile Industry
( ) A Study of the Twister Ring
( ) Table of Weaving Information (print cloth)
( ) Sewing Machine Maintenance
( ) Personnel Records Simplified
( ) Effect of Draft Distribution on Strength and Appearance of Cotton Yarn
( ) Photomicrographs Tell a Story
( ) Materials Handling Equipment at Columbia Mills
( ) Electron Microscopy of Wool
( ) Rayon Plant Mechanizes Reed and Heddle Cleaning
( ) Viscosity Measurements (their value to cotton)
( ) Pressure-Sensitive Tapes in Textiles
( ) Tensionless Processing Improved Knitted Garments
( ) Can You Name Them? (pictures of old-timers in industry)
( ) How Can Downtime be Reduced? (weaving)
( ) Fiber Strength and Yarn Strength
( ) Mill Eliminates Size Cooking and Storage Kettles
( ) A Modified Pressley Test
( ) Finishing with the Urea Formaldehyde Resins
( ) Work Load Calculations for Winding Machines
( ) Cotton Fly (occurrence and causes, means for controlling)

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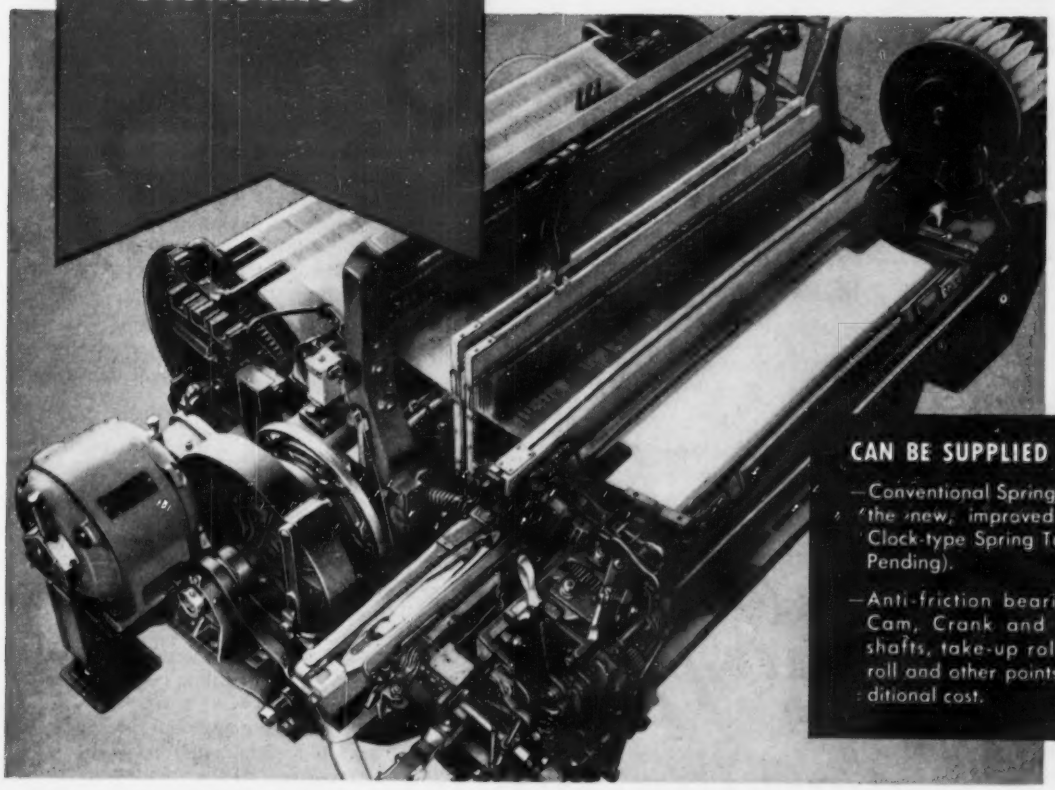

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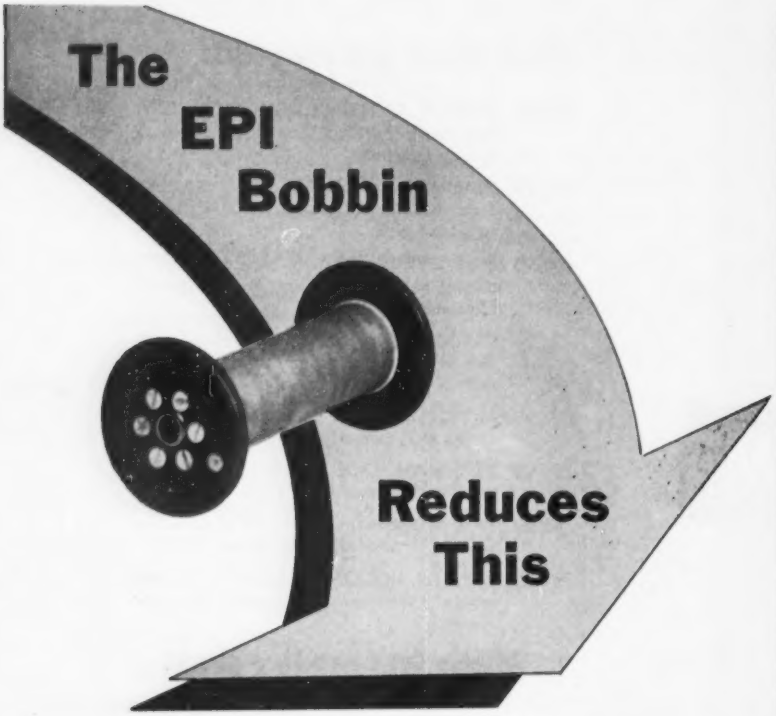

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Shorts and Remnants

you have a little flaming fabric in your mill?" If you don't know, an investigation of where your product stands might be in order. The Flammable Fabrics Law goes into effect in a couple of months and you may get caught in the middle. Fines under the law are not allowable income tax deductions.

► Sometime we think we're on the wrong mailing list. Sorry we can't pass along the rejected story on self-service baby pants; some fields we just don't cover.

► And you may have to wait on this one, coming from an employee. "I have in mind submitting to you a kink which I developed and which has been used successfully for some time at our plant. It permits down-twisting on an up-twister, or up-twisting on a down-twister, or both, or neither. Wire offer at once or I may decide to send it to another publication." Articles like that should be published in braille.

► Advertising in one paper indicates that in America it takes a secretary only 40 minutes to earn a pair of nylons, whereas in Russia it requires 27 hours—which reminds us of the story of the young fellow who was shown an exclusive pair of ladies' hose which sold in the neighborhood of eight bucks a pair. But what man would pay that much for a pair of hose for his wife, was the natural question. "Son," was the reply, "the man who buys these stockings doesn't give them to his wife."

► This month's intelligence: If your eyes feel tired, refresh them with cotton pads dipped in cold witch hazel.

The textile industry will turn to travel as an award to stimulate traveling salesmen to greater effort.

Selling your product at a loss guarantees no future business.

The best thing for a heel is a sock.

To extend the life of a broom, coat the bristle tips with shellac.

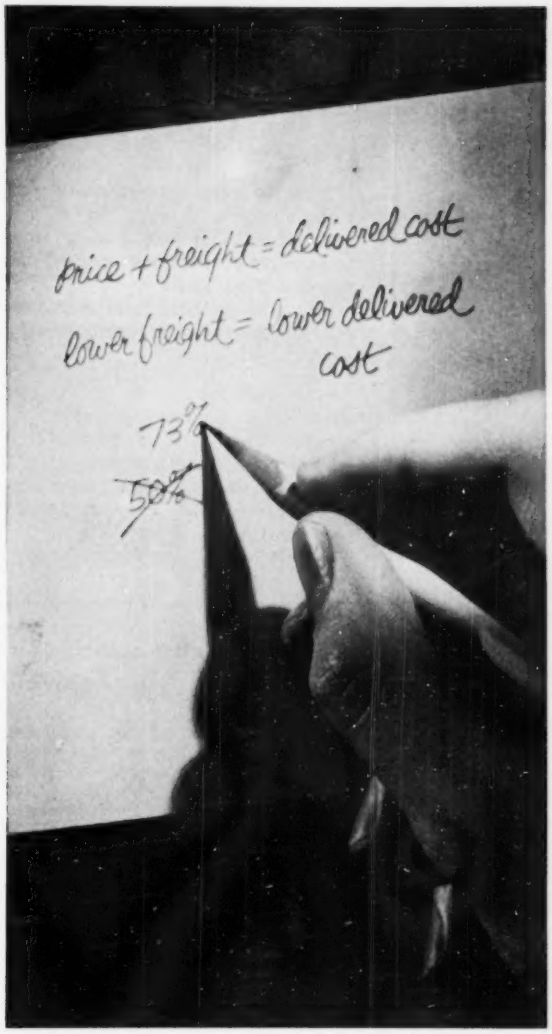
The percentage of trucks involved in accidents is on the decline.

Experts declare that by 1960 there will be half-million more foremen than today.

Mono-acetic-acid ester of salicylic acid is aspirin.

Engineers doubt that the jet prin-

For further information use Handy Return Card, Page 260



THE ECONOMIES OF 73% CAUSTIC SODA SOLUTION are no longer reserved for the largest users . . . lower shipping costs now make it the best form for you, too.

73% CAUSTIC SODA . . .

a little figuring may prove it your best buy!

FAST, DEPENDABLE DELIVERY of uniform 73% caustic solution is assured through use of Dow-owned tank cars. These 8,000- and 10,000-gallon cars are insulated, protectively lined, and fitted with nickel heating coils; unload from top or bottom by air pressure or pump. Frangible discs, protective plug cocks are two of the advanced safety features.

How long has it been since you have checked your caustic buying habits in the light of increasing cost factors? Higher freight rates are erasing the savings in 50% caustic solution for more and more users every day. Even users located near shipping points save money with 73%, since the higher price of even shorter distance hauls quickly wipes out the price difference between 73% and 50%.

73% caustic must be diluted when received, but most caustic users dilute 50% solution, too. The cost of additional handling equipment for dilution, when fairly amortized, becomes a small item in comparison to your over-all cost reduction.

If you are still buying 50% caustic solution, discussion in your plant and consultation with our Alkali Technical Service is indicated. Perhaps the comprehensive Dow Caustic Soda Handbook can help you in preliminary discussion. Ask your Dow sales representative for your free copy or write to THE DOW CHEMICAL COMPANY, Dept. AL 901F, Midland, Michigan.

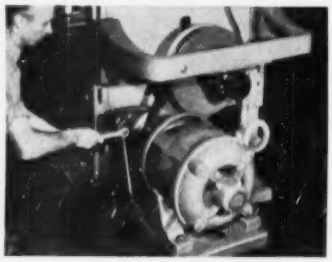
you can depend on DOW CHEMICALS

DOW

Adjust your Spinning Speeds without stopping the frame!

REEVES
VARI-SPIN DRIVE

● Now you can obtain new versatility, greater speed flexibility in your spinning frames . . . completely eliminate belt changes and pulley changes . . . cut downtime to an absolute minimum . . . simply by installing REEVES new Vari-Spin Drives using your present NEMA frame motors! REEVES Vari-Spin Drive gives you complete speed adjustability to provide the exact spinning speed you need for any yarn set without stopping the frame . . . *completely eliminates old-fashioned trial and error methods of "hunting" for exact speeds* . . . all in one compact unit which nests in narrow aisles!



TURN OF A SCREW changes spinning speed. Speed changes are immediate and positive . . accurate to a fraction of an rpm.

Send today for new Vari-Spin Bulletin T6-S-1

REEVES PULLEY COMPANY • COLUMBUS, INDIANA

Shorts and Remnants

ciple can be adapted to the movement of the shuttle.

The older man seems wiser than the younger because his foresight has turned to hindsight.

Only nine feathers from each turkey wing are used in manufacturing arrows.

► Around the world: Paris. The oldest printed handkerchief dates from 1775; on it is to be read the Declaration of Independence.

West Germany. Perlon rain clothing material is being manufactured in color.

London. An automatic ladies'

This Month's Commercial

(Eds. Note: Of doubtful interest; suggest reader turn the page.)

► Ole S&R thought he was getting by without this month's commercial, when in comes our gastronomical editor, who had been eating rather high on the hog, to remind us of good food at the Purefoy Cellar, but noticed that nowhere and nohow had we imparted the fact that TI gets there fustest with the mostest or even implied that TI is just about the best thing since Adam.

Seems that said gastronomical editor wanted us to say that he had been busy during 1953 handling over 12,000 inquiries from you readers who write in on company letterhead or check the Handy Return Card, and he sends thanks for your interest and hopes you'll continue to write, because if you don't then he quits eating.

► With the Atlantic City Show coming up, everyone is working toward a cute slogan or something unique to give away. Here's what you might have seen in Atlantic City if the boss had stayed out of town another day:

Gift of spinning tops, supposedly denoting that "TI is tops."

Gift of package of aspirin, with slogan printed "TI cures your textile headaches."

And to compete with Lucky Strike's "LSMFT," one of our brighter fellows came up with the word

NEPULPOCUGAHITO

which is backward spelling of

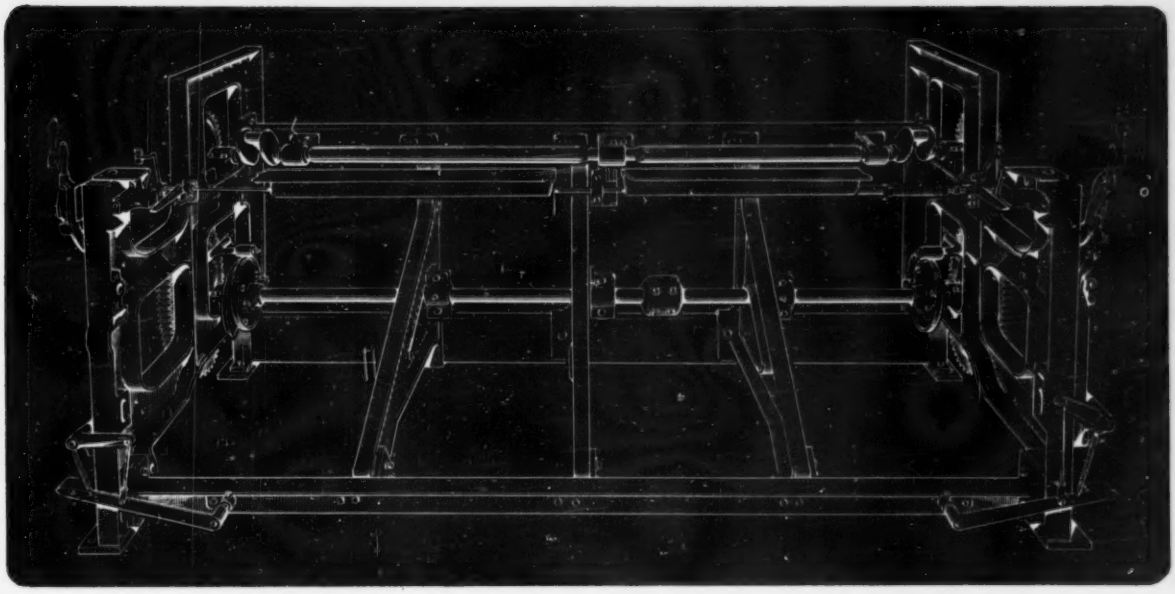
OTIHAGUCOPLUPEN

which is supposed to mean "Only TEXTILE INDUSTRIES has good unit coverage plus penetration."

Thus ends this month's commercial. Next time you'll believe us when we suggest turning the page.

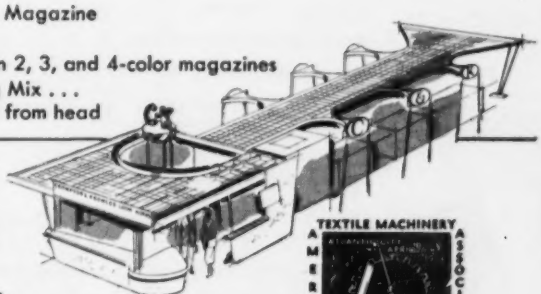
See C&K's

New MP Looms



C&K'S NEW MULTI-PURPOSE LOOMS give you wider versatility than any weaving equipment built today. Here is the principle:

To this Basic Frame: . . .	Add these Motions:
Loom Sides Cross Girts "A" Girts Drive & Shipping Protection Picking	Any Take-up Any Shedding Mechanism 1, 2, 3, or 4-color Rotary Magazine Any Let-off Vacuum Filling Control: On 2, 3, and 4-color magazines Box Motion: Call or Filling Mix . . . geared type or operated from head



These are the basic facts on C&K's NEW MULTI-PURPOSE LOOMS. Now, for the full story on what they can do for *your* profit picture, *make C&K's exhibit your first stop at the Show* . . . and see new standards of weaving performance in the making.

Here's where to see C&K's New Looms at . . . Booths 323 to 338—330AA to 331AA

TEXTILE MACHINERY AMERICAN ASSOCIATION EXHIBITION

This "Invisible Trademark" Stands Back of the Trademarks of the World's Finest Fabrics . . . which are **WOVEN** Fabrics.

Crompton & Knowles LOOM WORKS

WORCESTER 1, MASSACHUSETTS, U. S. A.

Philadelphia, Penna. · Charlotte, N. C. · Allentown, Penna.
Crompton & Knowles Jacquard & Supply Co., Pawtucket, R. I.

TWO-WAY RIDE FOR YOUR BOBBINS

...this double deck ALVEY CONVEYOR SYSTEM carries full bobbins on the top run and empties on the lower run

At Alvey, every conveyor problem is special. Every system is exactly tailored to your particular needs... designed by the conveyor industry's top engineers to reduce costs and speed product handling. An Alvey Engineer is always available. He will visit your plant and evaluate your problem. Write for appointment.

Every time you **MAN**handle a package, you add to the cost and nothing to the value; therefore, put your packages on Alvey Conveyors that are engineered to fit your individual requirements.

ALVEY

ALVEY CONVEYOR MANUFACTURING COMPANY

9306 Olive Street Road, Saint Louis 24, Missouri

136

BRANCH OFFICES IN PRINCIPAL CITIES

Shorts and Remnants

hosiery dispensing machine in a bar is used by men for gifts to the ladies as consolation when they are late for the appointment.

India. The largest carpet ever made in that country required six months of work by convicts.

France. Knitting needles used by Marie Antoinette and stockings worn by Napoleon III were displayed.

Russia. A silk worm has been bred that grows more rapidly, spins longer threads, and supplies more silk than any silk worms in the capitalist world.

Stockholm. Male pupils appeared in Scotch kilts, claiming their rights while the girls wore long trousers.

England. Manufacture of hand-knitted women's clothing is done by blind people who follow knitting instructions in Braille.

Right on Flutes

" . . . discussing draft rollers on frames . . . I've said that the fluted rolls on slubbers and ring frames are made with grooves at varied distances so the top roll and bottom roll will not always touch at same place and mark the top roll . . . think this is invention of Richard Arkwright . . . "

CYRILL FLUET
Sherbrooke, Canada

► Correct on grooves and flutes. Cannot confirm for Mr. Arkwright.

Drafting at Southern Lab

" . . . am very much interested in two articles . . . December 1952 and March 1949 . . . 'Draft Proportionment for Coarse, Short Staple Cotton on Long Draft Roving Systems' and 'Drafting Long, Fine Fiber Cottons on Super Draft Roving Frames' . . . like to have three copies. . . "

RALPH LYBRAND
Union-Buffalo Mills
Union, S. C.

► Reprints available from Southern Regional Research Laboratory, New Orleans.

Saran's Mistakes

" . . . be possible for you to forward us two sets of tear sheets . . . January 1954 titled 'Some Mistakes You Can Avoid When Processing Saran Monofilament' . . . "

W. P. FLANDERS
M. Stanley Brown
New York, N. Y.

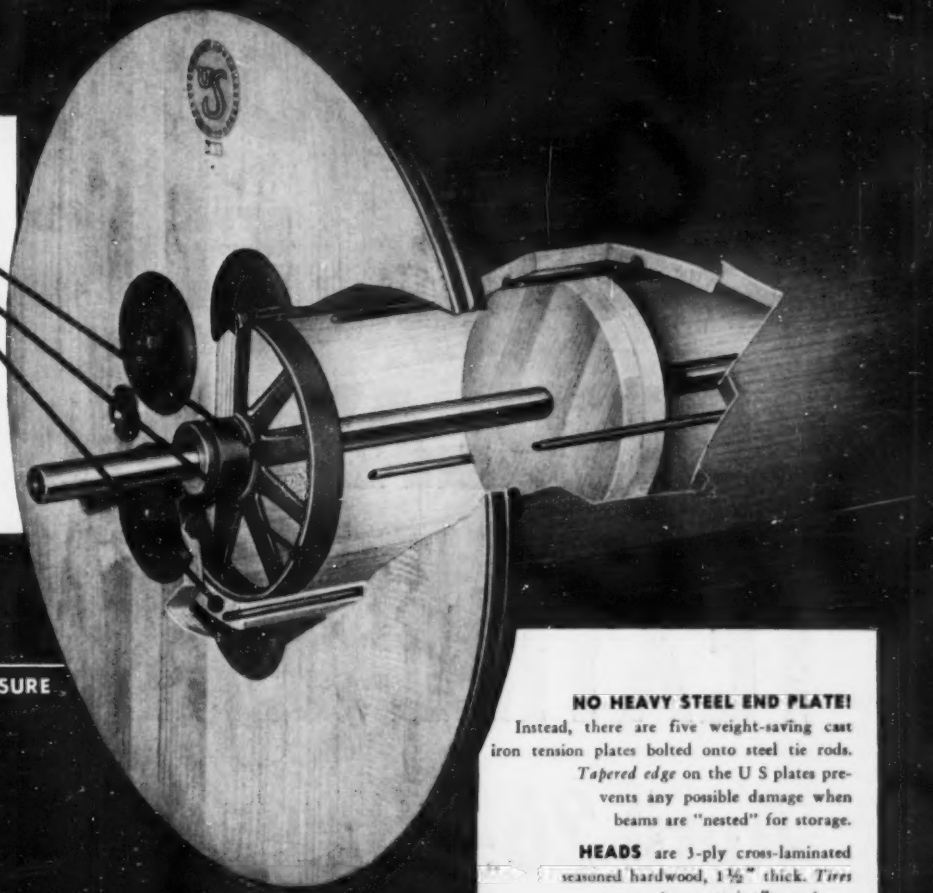
" . . . your article on processing

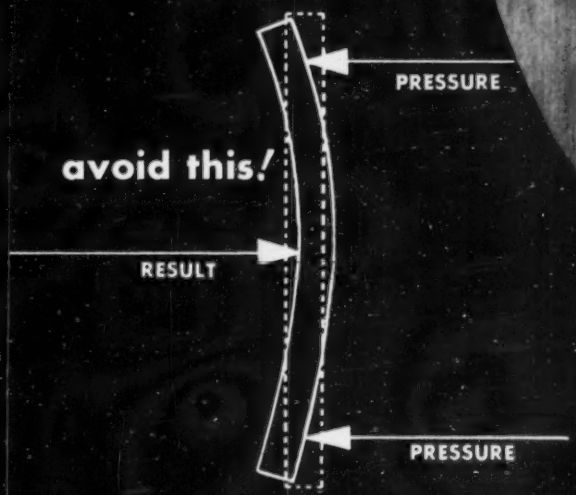
COTTON...spun rayon...and wool

3-POINT SUPPORT FOR THE BEAM HEAD

shoulder at hub of casting
periphery of casting
ends of staves

U S Warper Beams are *all* built with 3-point support, which provides additional resistance against outward deflection during build-up of the beam.





NO HEAVY STEEL END PLATE!
Instead, there are five weight-saving cast iron tension plates bolted onto steel tie rods. *Tapered edge* on the U S plates prevents any possible damage when beams are "nested" for storage.

HEADS are 3-ply cross-laminated seasoned hardwood, 1½" thick. *Tires* are extra heavy (3/32") steel . . . grooved, heated and shrunk-fitted onto the heads for tighter assembly. Eastern pine barrel staves are supported at each end by round cast iron supporters.

U S BOBBIN & SHUTTLE CO.

SEND FOR SET OF BLUEPRINTS
and Bulletin CWB
for detailed construction features of U S Warper Beams, Heads and Tension Plates for Cotton, Spun Rayon and Wool.

Manufacturing Plants
LAWRENCE, MASS. • GREENVILLE, S. C. • KEENE, N. H.

General Sales Office LAWRENCE, MASS.

Southern Division Headquarters 1912 Augusta Rd., GREENVILLE, S. C.
CHARLOTTE, N. C. JOHNSON CITY, TENN. LaGRANGE, GA.
PHILADELPHIA, PA. PROVIDENCE, R. I. MINNEAPOLIS, MINN.
DALLAS: O. T. Daniel, Textile Supply Co. LOS ANGELES: E. G. Paules, 1762 W. Vernon Ave.
CANADA: W. J. Westaway, Montreal, Que., Hamilton, Ont.

4 IMPORTANT PRODUCTS from SKF DISPLAYED at the TEXTILE EXPOSITION—

April 26-30, 1954-Atlantic City

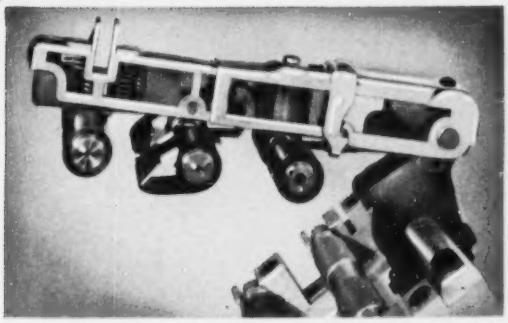
Booths 465-6

Once again, significant news is coming from SKF.

This time it's about four revolutionary SKF products for the textile industry.

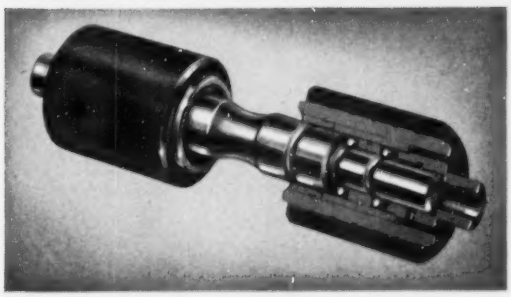
They are products which will help you improve the efficiency and economy of your mill operation. They are products which are attractively priced. They are products which are readily available.

They are products which you owe it to yourself to see when you visit the American Textile Machinery Exposition!



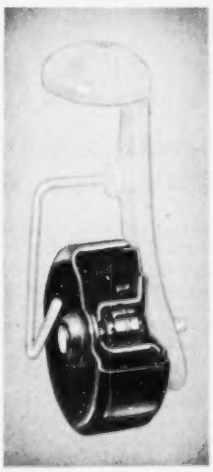
You'll see the SKF PENDULUM WEIGHTING ARM

Eliminates cap-bars, saddles, hooks and dead weights! Permits individual guidance of top rolls and insures parallel tracking with bottom steel rolls at all times. Each roll is weighted by its own coil spring, so that top rolls can be adjusted separately without affecting load distribution.



You'll see the SKF BALL BEARING TOP ROLL

Prevents oil from staining yarns. Delivers uniform drafting. Grease lubricated, requires re-lubrication only once every three years of three-shift, six-day week operation. Available for either pendulum or cap-bar guidance.



You'll see the SKF TENSION PULLEY

Tiltproof, double-row ball bearing. Bearing inner race rotation and stationary grease chamber gives this pulley greatly increased capacity over conventional types. All steel, dynamically balanced, Parkerized shell.

You'll see the SKF ROLLER BEARING SPINDLE

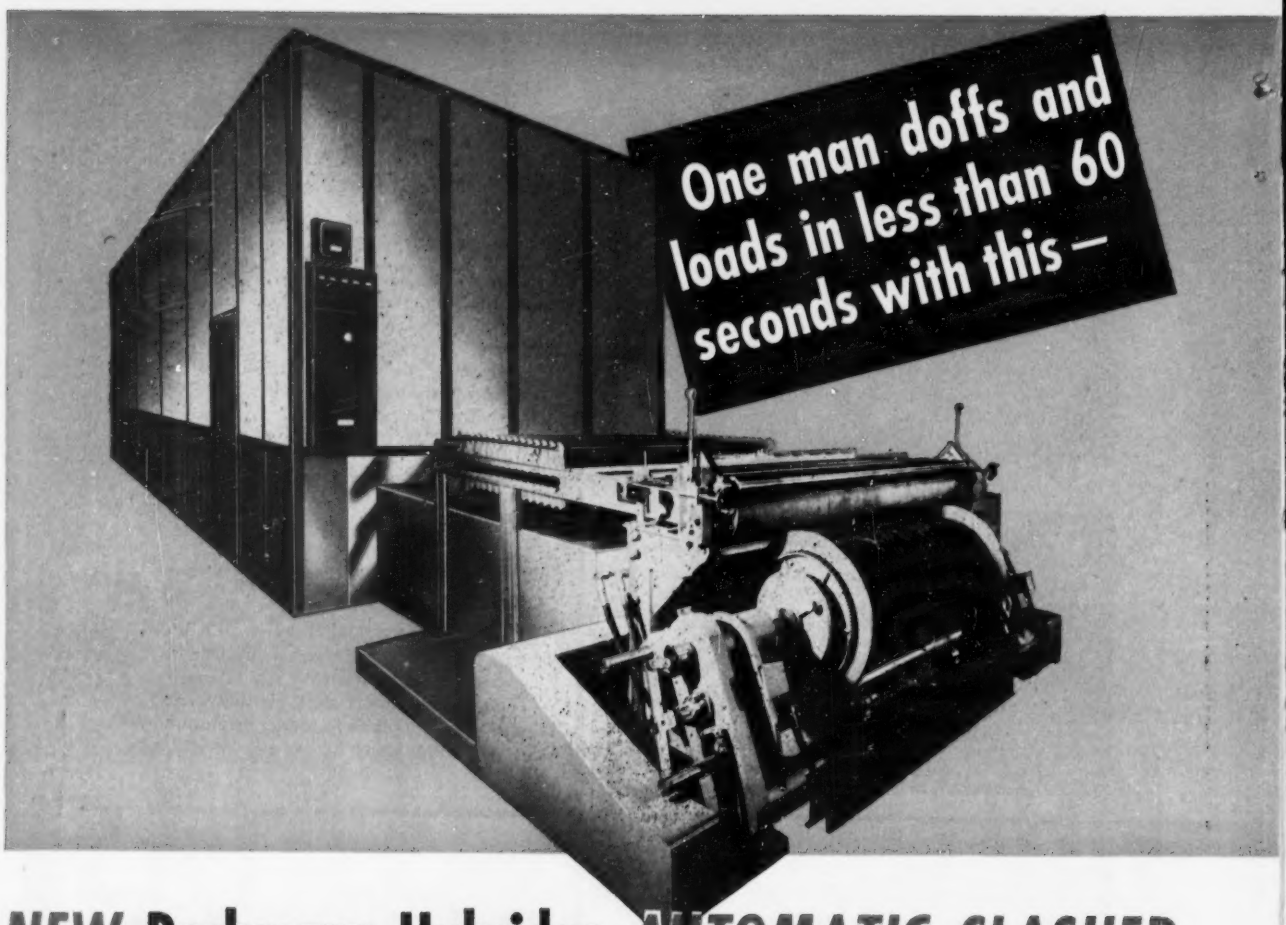
Spindles that usually save between 15% and 25% of power required by motors, tapes, belts, etc. The peak loads are reduced to a minimum . . . more uniform twist is obtained . . . and the yarn has a higher average breaking strength.

You'll see other SKF Bearings and the sand-blast-proof "SY" Pillow Block for textile mill applications, and be able to talk to SKF Field and Home Office Engineers who will tell you why SKF products can improve the efficiency and economy of your operations. Be sure to stop in. **SKF INDUSTRIES, INC.,** PHILADELPHIA 32, PA. *— manufacturers of* SKF *and* HESS-BRIGHT® *bearings.*

7525

SKF®

TEXTILE BEARING SPECIALTIES



NEW Bachmann Uxbridge *AUTOMATIC SLASHER*

Fast, efficient, automatic! Our new Automatic Slasher teams up with the mill-tested Gentle-Air Dryer to give you a complete slasher room set-up keyed to modern high-speed production — with quality assured.

Easy Operation: Decision of the Bachmann Uxbridge Research Department to originate a completely automatic doffing and loading mechanism using hydraulic power, instead of developing a conventional slasher head, has produced a unit exceptionally easy to manipulate.

The sequence of operation is controlled by three readily accessible levers. Starting with a full beam, the operator uses the first lever to release the compressor roll. The second lever actuates the doffing cylinder until the beam comes to rest on a dolly or the floor. The third lever automatically strips the bearings from the beam arbor, whereupon the full beam can be removed by whatever method is presently employed.

Then an empty beam is rolled into a detent in the floor, and a gauge next to the three operating levers shows the operator when the holes in the driver and idler spindles are in line for picking up the empty beam—the loom beam always being positioned by automatic means exactly in the center of the unit. Next, the stripping cylinders are actuated, thus engaging the beam arbors. The doffing cylinder is actuated until the beam and cradle assembly are brought into running position.

We estimate that the entire cycle can be completed by one operator *in a period of 60 seconds.*

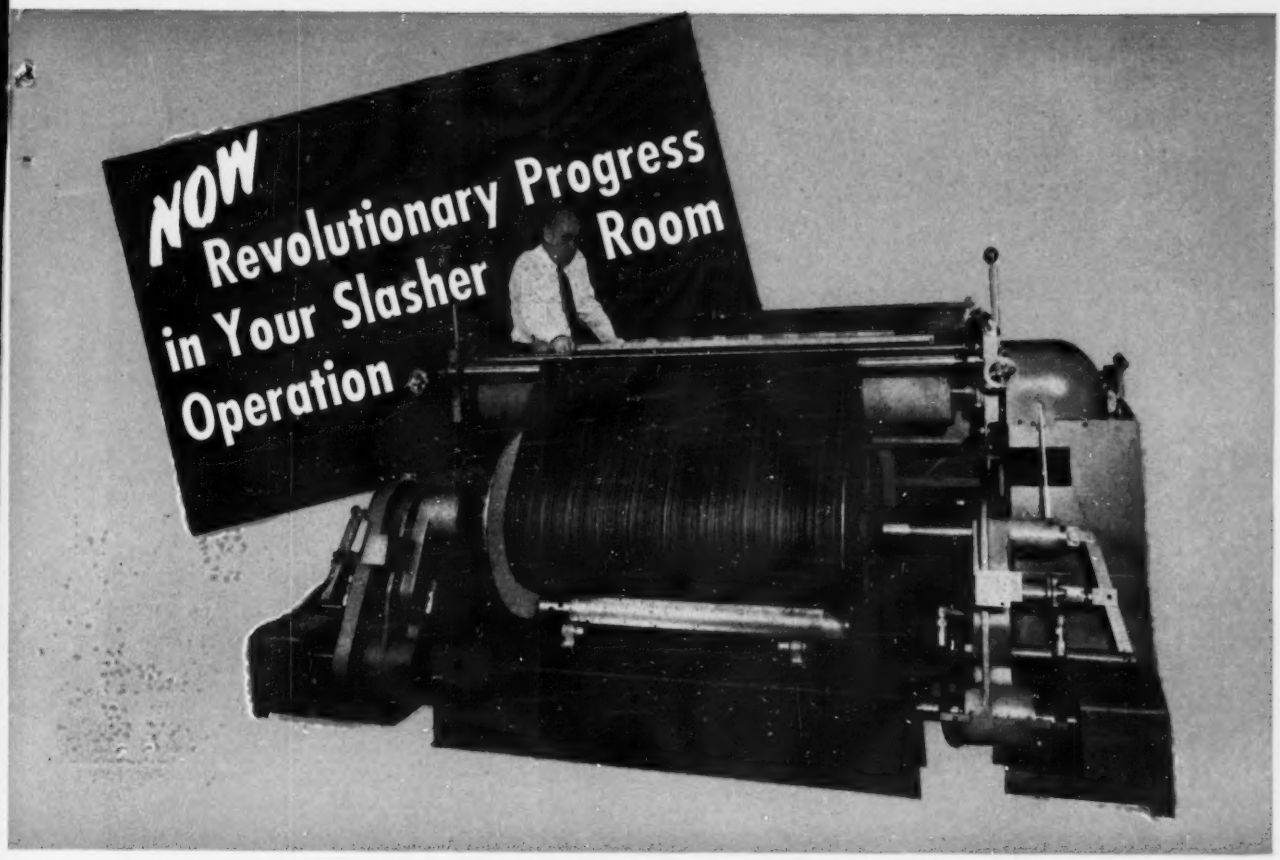
Mechanism is completely interlocked so that the operator cannot by any chance strip the loaded spindles until the beam is in doff position, nor can he doff the beam until the compressor roll is released.

BACHMANN UXBRIDGE WORSTED CORPORATION
UXBRIDGE, MASSACHUSETTS

Representatives:
South—Ira L. Griffin and Son, P. O. Box 1576, Charlotte 1, N. C.
New England & Canada—James H. White, 40 Crystal Ave., Derry, N. H.
South America—Quimanil S/A, Anilines Representacoes Matriz, Sao Paulo, Brazil

More warps & Better warps

Get the Facts: Full details on request, at no obligation to you. Our Engineering Department will gladly study your slasher room problems, and consult on ways to increase and improve production. *No sales follow-up* unless you specifically request it. If you wish, just notify us to have an Engineer call — when you send for data on our new Automatic Slasher.



The Bachmann Uxbridge Automatic Slasher is first of its kind made in America, as far as we know — not just one more slasher, but a totally modern mechanism using hydraulic power to actuate a completely automatic doffing and loading operation. Note these features:

1. **Doffing and loading machinery hydraulically operated.**
2. **Automatic, self-aligning compressor roll can be regulated to any desired pressure.**
3. **Readily accessible levers control sequence of operation.**
4. **Loom beam always positioned automatically in exact center of unit.**
5. **Operator cannot strip loaded spindles until beam is in doff position, nor can he doff beam until compressor roll is released.**
6. **Roller bearings throughout practically eliminate any need for lubrication.**
7. **New type lease rod bracket enables rods to be locked into position without wrenches or set screws for adjustment.**
8. **Fresh air sucked under unit on way to Gentle Air Dryer acts as cooling agent for electric motors.**
9. **Screen filter cleans dust, dirt, lint, etc. from air before it enters dryer.**
10. **Can be made to accommodate any desired beam width or circumference.**

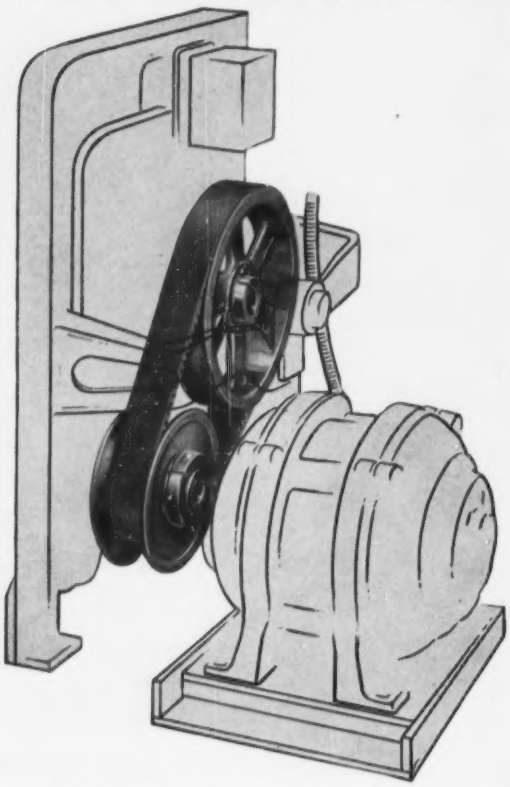
Mill-Proved Products: Without obligation, ask for details of our Automatic Slasher — newest of the Bachmann Uxbridge Mill-Tested Products, developed and produced from the mill man's point of view.

BACHMANN UXBRIDGE WORSTED CORPORATION
UXBRIDGE, MASSACHUSETTS

Representatives:
South—Ira L. Griffin and Son, P. O. Box 1576, Charlotte 1, N. C.
New England & Canada—James H. White, 40 Crystal Ave., Derry, N. H.
South America—Quimanil S/A, Anilines Representacoes Matriz, Sao Paulo, Brazil

More warps & Better warps

it's new • it's exclusive • it's different



. . . it's Wood's variable speed drive

Yes, here's a variable speed drive that will give years of trouble-free operation. Just look at these exclusive features:

WIDE SPEED RANGE — Up to 3 to 1 speed range ratio.

HORSEPOWER RANGE — Radically new notched belt construction gives higher horsepower capacity for single belt drive — 5 to 20 horsepower motors.

NEW CONSTRUCTION — The first wide range single groove stationary control variable pitch sheave with both flanges moving simultaneously.

POSITIVE LOCKING — Simplified design provides positive clamping of the two adjustable flanges eliminating fretting corrosion. Flanges are quickly and easily released for making speed changes.

HIGHER EFFICIENCY — Single wide belt gives maximum HP efficiency. Eliminates problem of maintaining matched belts and matched grooves for equal power distribution.

LESS SHAFT OVERHANG

ADJUSTABLE AT EITHER END — Single adjusting screw easily accessible at either end of the sheave.

NO LUBRICATION — No grease fittings or oil cups, therefore, no preventive maintenance needed.

MORE ECONOMICAL — This unit will give a variety of speed changes best suited for your product or operation . . . sensibly priced too.

For more detailed information call or write T. B. Wood's Sons Company . . . and ask for Bulletin #796.

T. B. Wood's Sons Co. Chambersburg, Pa.

Cambridge, Mass. • Newark, N. J. • Dallas, Texas • Cleveland, Ohio

Shorts and Remnants

saran monofilament in your January issue is highly informative. . . "

A. T. WIDIGER
Saran Development Lab
Dow Chemical Co.
Midland, Mich.

" . . . thought your article on 'Processing Saran Monofilament' was very timely . . . it contained a lot of useful information . . . I don't know how you do it, but TEXTILE INDUSTRIES seems to get more interesting every time you bring out a new issue. Also, your comments in Shorts and Remnants often help to cheer up everyone in the department. . . "

JOHN K. STEARNS
Director
School of Textiles
International Correspondence Schools
Scranton, Pa.

► Glad the article was timely and helpful. That anyone reads S&R surprises us.

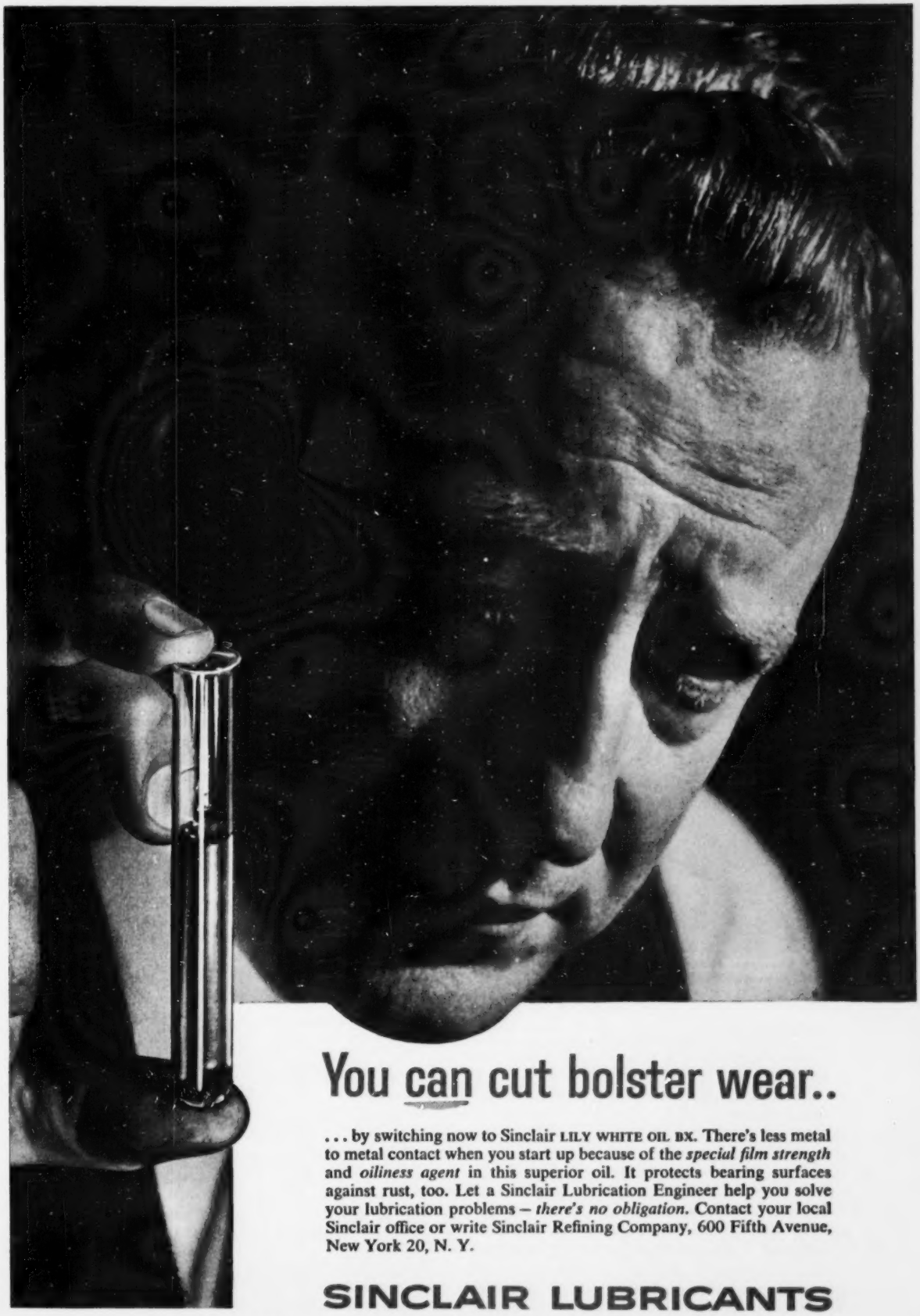
Introducing **Leon E. Seidel,** new associate editor of TEXTILE INDUSTRIES in and about New York and New England. He comes to TI from Frank Associates, a specialty mill on synthetics, where he was plant manager. He also has had experience in worsted and cotton mills. Leon is the second Philadelphia Textile Institute graduate on the staff, receiving his B. S. in textile engineering after the usual interruption for a minor conflict of opinion between nations, during which time he proved adept at dodging most missles, but not all.

Mr. Seidel

His hobbies run the gamut of golf, fishing, stamps, the theater, and music, and his collection of Mozart records threatens to displace both furniture and back issues of TI.

Leon is interested in the progress of textile education and delights in a well run textile operation, particularly one that contains a better mousetrap or one that eliminates the mousetrap altogether.

He'll be at your door one of these days. If you haven't met him yet, we believe that you'll agree with his



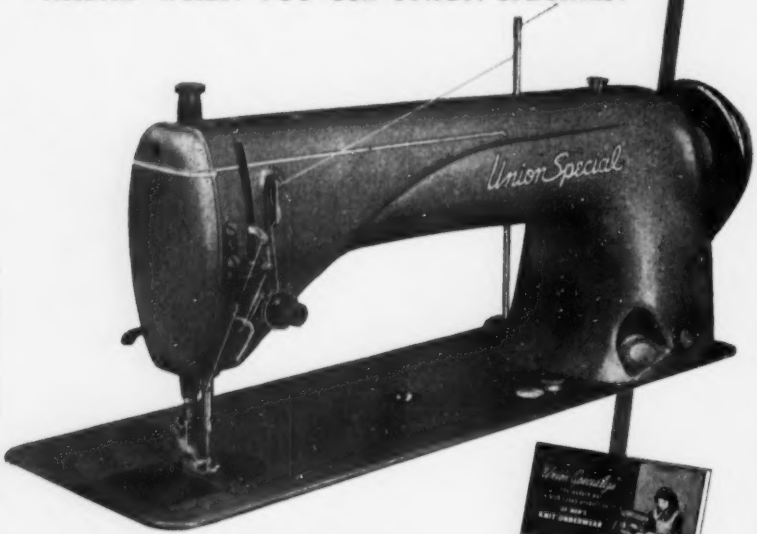
You can cut bolster wear..

. . . by switching now to Sinclair LILY WHITE OIL BX. There's less metal to metal contact when you start up because of the *special film strength* and *oiliness agent* in this superior oil. It protects bearing surfaces against rust, too. Let a Sinclair Lubrication Engineer help you solve your lubrication problems – *there's no obligation.* Contact your local Sinclair office or write Sinclair Refining Company, 600 Fifth Avenue, New York 20, N. Y.

SINCLAIR LUBRICANTS

NOW is the time to equip for PROFITS

Profits can, and will, come your way only when you plan for them . . . work for them . . . equip for them! Replace old, obsolete, inefficient machines now. Plants equipped with modern, high speed Union Specials have an important advantage. Union Special machines are built to do the job faster . . . better . . . cheaper, and they stay on the job with minimum time out for repairs. YOU'RE AHEAD WHEN YOU USE UNION SPECIALS!



Helpful Bulletins

Union Special offers product application bulletins covering the manufacture of a number of different types of wearing apparel. Copies are available on request with no obligation. WRITE TODAY.

Bulletin No. 250: "Dress Shirts and Sport Shirts."
Bulletin No. 251: "Workmen's Service Garments."
Bulletin No. 252: "Men's Shorts and Pajamas."
Bulletin No. 253: "Overalls, Coveralls and Work Pants."
Bulletin No. 254: "Men's Knit Underwear."
Bulletin No. 255: "Women's Knit Underwear."
Bulletin No. 256: "Knit Outerwear."
Bulletin No. 258: "Class 61400 Lockstitch Machines."
Bulletin No. 260: "Work Gloves."
Bulletin No. 263: "Men's Clothing Manufacturing."

Union Special® MACHINE COMPANY

407 NORTH FRANKLIN STREET • CHICAGO 10, ILLINOIS

Shorts and Remnants

acquaintances from Maine to Georgia that Leon is okeh.

Reply to Reply

" . . . notice the rather strongly worded review in the current [Feb.] issue of my paper of last June [issue] on 'Yarn Evenness.' In view of the controversial matter involved, I am somewhat surprised that you did not give me an opportunity to reply in the same issue. . . "

N. L. ENRICK
Research Statistician
Institute of Textile Technology
Charlottesville, Va.

► Opportunity now afforded. Mr. Enrick's reply to the other fellows reply to Mr. Enrick's original article appears on page 209.

No Issues Missed

" . . . having taken the TEXTILE INDUSTRIES for years we feel that we cannot miss one issue. . . "

H. WINDFELD-HANSEN
Vejle, Denmark

Our Fault

" . . . read with interest the article on page 124 of your January issue pertaining to the dyeing of Orlon knit goods . . . you mentioned the use of equipment manufactured by our firm and its application in processing the Orlon fabric. Unfortunately, due to a typographical error, reference is made to the final 'washing' of the fabric being done on an overfeed type machine. We believe that the word 'washing' was probably printed in error as a 'finishing' operation is applied by the Tube-Tex machine. . . "

DON FOREMAN
Tubular Textile Machinery Corp.
Woodside, L. I., N. Y.

► There is a difference, and we're glad to correct our mistake. Thank you Mr. Foreman.

Greenville Show Only 5 Days

" . . . notice your calendar for the textile show is set up for October 4 to 9. We will have a five-day show this year, opening Monday, October 4 and closing Friday, October 8. . . "

BERTHA M. GREEN
Secretary
Textile Hall Corp.
Greenville, S. C.

► Readers note and plan on only five, instead of six, days. Thanks, Miss Green.

See us at the
TEXTILE MACHINERY EXHIBITION
Atlantic City, New Jersey
April 26-30, 1954
Booth Nos. 348 to 352 and 374 to 376

You Gain

. . . ALL THE ADVANTAGES OF EXPERIENCE, RESEARCH, MODERN DEVELOPMENT AND DESIGN CAN GIVE

It will pay you many times over to consider the benefits available in changing over to the Stehedco Drawtex Frames and Heddles.

Steel Heddle Mfg. Co., universally known for STEHEDCO & SOUTHERN Products that "Weave the World's Needs", in close cooperation with Barber Colman, has developed through its years of experience, and constant research, the *proper* harness for use with Warp drawing in equipment.

Exclusive Steel Heddle Features bring you . . . Freedom from Warp Streaks caused by Harness . . . Longer Heddle Life . . . Fewer seconds . . . Less Harness Adjustment in Looms with Greater Production and Versatility for both heavy and light yarns.

For complete information consult our staff of Field Engineers.

PERTINENT FEATURES YOU PURCHASE . . . AND ONLY SUPPLIED WHEN STEHEDCO IS SPECIFIED.

1. A Heddle made of tempered steel to give Maximum Life so designed that Fatigue Failure is eliminated. Can be furnished in either Carbon Steel properly plated or Stainless. Stehedco Drawtex Heddles are made of tempered steel approximately 7/32" in width to give ample room for selector or keyhold. Cut out at side to reduce weight and resistance to turning when picked off by turning worm and twisted into its proper location for needle to enter eye.

2. A spring effect in each Heddle so release from selector rod of drawing machine is positive. This also speeds up hand entering for those mills not using automatic drawing equipment.

3. Maximum bearing surface, plus ease of assembly with latest Stehedco designed rod support.

4. A simple and effective means for locking Heddle Rod in place and to provide proper tension. Accuracy and close inspection in manufacture assures perfect performance in entering machine.

5. A specially designed Hook for double bar construction where this type Harness is required. This provides a substantial bearing surface for all contacting parts so wear is practically eliminated.

Stehedco and Southern
WORLD FAMOUS TRADE MARKS OF THE
Steel Heddle
Mfg. Co.

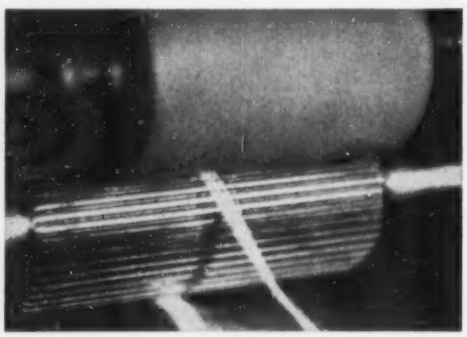
STEEL HEDDLE MFG. CO., 2100 W. Allegheny Ave., Phila. 32, Pa.
SOUTHERN SHUTTLES Parts Plant . . . Greenville, S. C.
A Division of STEEL HEDDLE MFG. CO.
STEEL HEDDLE COMPANY OF CANADA, LIMITED
310 St. Hubert Street, Granby, Quebec, Canada

Other Plants and Offices:
Greenville, S. C. • Atlanta, Ga. • Greensboro, N. C. • Providence, R. I.
Textile Supply Co., Dallas, Texas • Charles H. Dunbar Co., Los Angeles, Calif.
Albert R. Brown, Chicago, Ill.

5-8-19

Tests like these showed mill men Armstrong's NO-742-S Cots

STOP SERIOUS



WITH REVOLVING CLEARERS, USE THE LAP-RESISTANT J-490 COT

For spinning fine yarns, and for any count yarn with revolving clearers, Armstrong's J-490 Accotex Cots are used in thousands of mills. Special electrolytes added to the J-490's long-wearing synthetic rubber composition make it highly resistant to lapping. The J-490 runs exceptionally clean, too—it's not affected by oil, dyes, or commonly used textile solvents. If lapping's a problem, call your Armstrong man today and arrange for a test side of these lap-resistant J-490 Accotex Cots.

THREE YEARS of testing and experience in mills all over the country prove it: you can eliminate even the worst eyebrowing with Armstrong's newest Accotex® Cot, the NO-742-S.

Here's what mill men who have tested the NO-742-S say. "Your new cot," reports one supervisor, "cleared up a bad eyebrowing situation in my spinning room. Now, with normal picking and buffing schedules, you can't find an eyebrow in my spinning room."

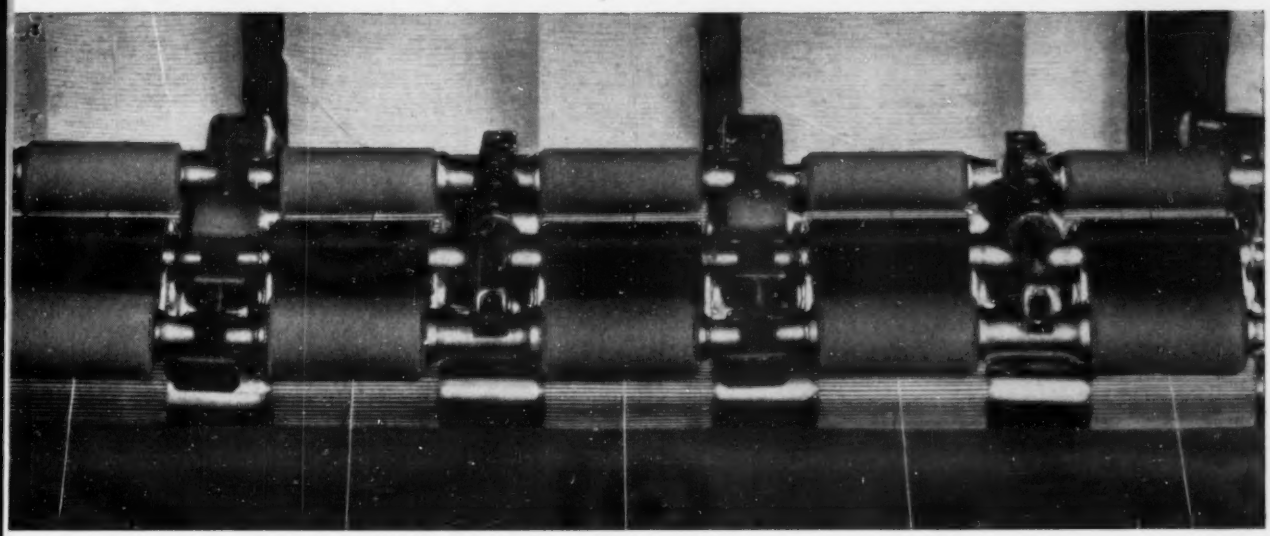
An overseer reports, "After the test had been running a few months, I could tell which rolls were covered with those new cots without even lifting the clearer boards. When all the others had eyebrows, the NO-742-S cots didn't."

Only one re-buffing per year. A third mill man likes the low operating cost of NO-742-S cots. "I'm amazed they run so clean and so long without slicking or glazing. In fact, we only have to re-buff them once a year."

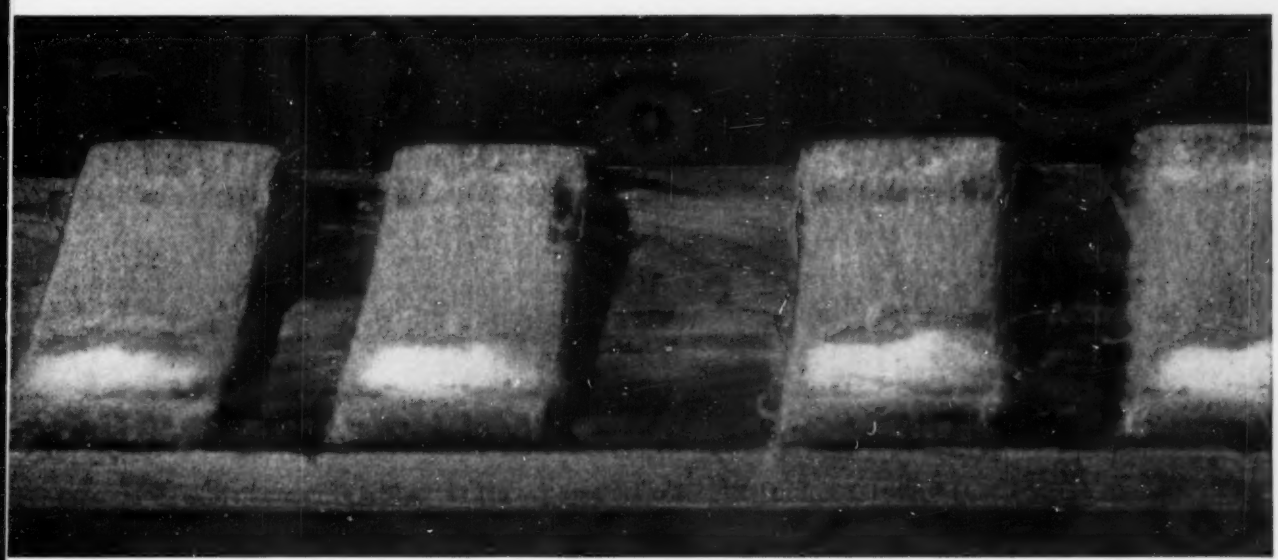
If you haven't seen an NO-742-S cot yet, ask your Armstrong man to show you one. In your hand, you can see and feel the "bite" of its unique drafting surface. It's this "bite" that packs waste well back on the clearer felt. That's the secret of the NO-742-S and its success in eliminating eyebrowing.

If you have trouble with eyebrowing in your spinning room, try a test frame of this newest Armstrong cot. Call your Armstrong man or write Armstrong Cork Co., Textile Products Dept., 6504 Ivy Street, Lancaster, Pa. Available for export.

ARMSTRONG'S

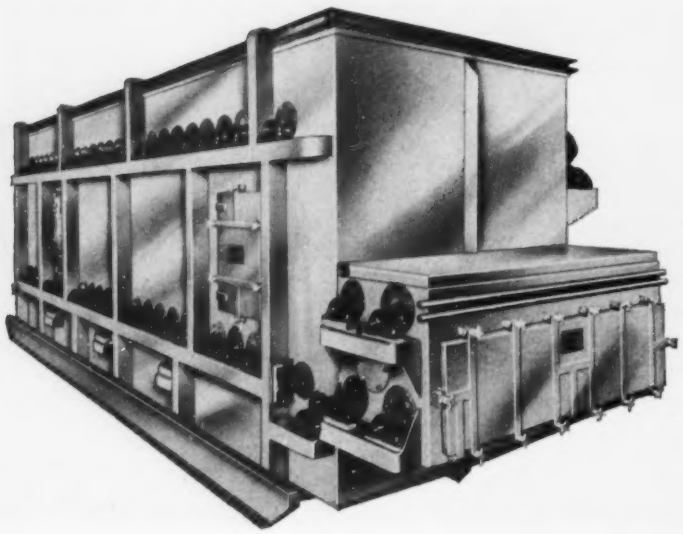


EYEBROWING



Here you see why mill men are so enthusiastic about the eyebrow resistance of Armstrong's NO-742-S spinning roll cover. This clearer board was removed from a spinning frame when it was time for normal picking. Waste has been packed well back on the clearer where it can't drop off. These Accotex Cots had been running on 30-count yarn over six months without re-buffing when this photograph was taken.

ACCOTEX COTS • • NO-742-S • J-490 • NC-727 • • • •



If you buy textile machinery, this ad is important to you.

Because you're interested, we'd like to present some of the basic features of our Stainless Steel Agers. Tower Acid Agers are fabricated entirely of corrosion resistant stainless steel; a new concept in ager design. Proper design of structural members provides maximum strength. Welded construction entirely eliminates costly repair and maintenance resulting from cracks and leaks. Tower Agers have a positive pulse-type acid injection system that insures you of maximum color value and uniformity of aging with a minimum of acid consumption. These units may be constructed for use as combination vat and acid agers. A Tower Stainless Steel Ager arrives at your plant completely assembled and accurately aligned, minimizing costly field installation and production delays. You may be assured that the fundamental principle of Tower is to produce the finest equipment available, in design, material and workmanship.

TOWER IRON WORKS

50 BORDEN ST., PROVIDENCE 3, R. I.

TEXTILE DIVISION

Personal NOTES

ABOUT MEN YOU KNOW

Re-elected as president of the American Association of Textile Chemists and Colorists was **J. Robert Bonnar** of General Dyestuff Corp. **George L. Baxter,** Bradford Dyeing Association, and **Joseph H. Jones,** Phoenix Dye Works, were elected vice-presidents. Newly elected councilors for sections were: **Matthew J. Babey,** New York; **Ernest J. Chornyei,** Rhode Island; **Arthur T. Brainard,** Mid-West; **Harley Y. Jennings,** Piedmont; **John P. Ploubides,** Northern New England; and **Robert C. Allison,** New York. An assistant secretary, **Richard R. Frey** of Mount Vernon, N. Y., has been added to the administrative organization of the association. At a recent meeting of the Philadelphia Section, new officers installed were: **Frederick V. Traut,** Globe Dye Works, chairman; **Thomas H. Hart,** Hart Products Corp., vice-chairman; **Percival Theel,** Philadelphia Textile Institute, treasurer.

Mr. Frey

G. M. Ferree, with the company since 1933, has retired from Adams-Millis Corp., Tryon, N. C. Succeeding him as superintendent of the throwing plant is **Craig Hancock. Troy Durham** will be Mr. Hancock's assistant.

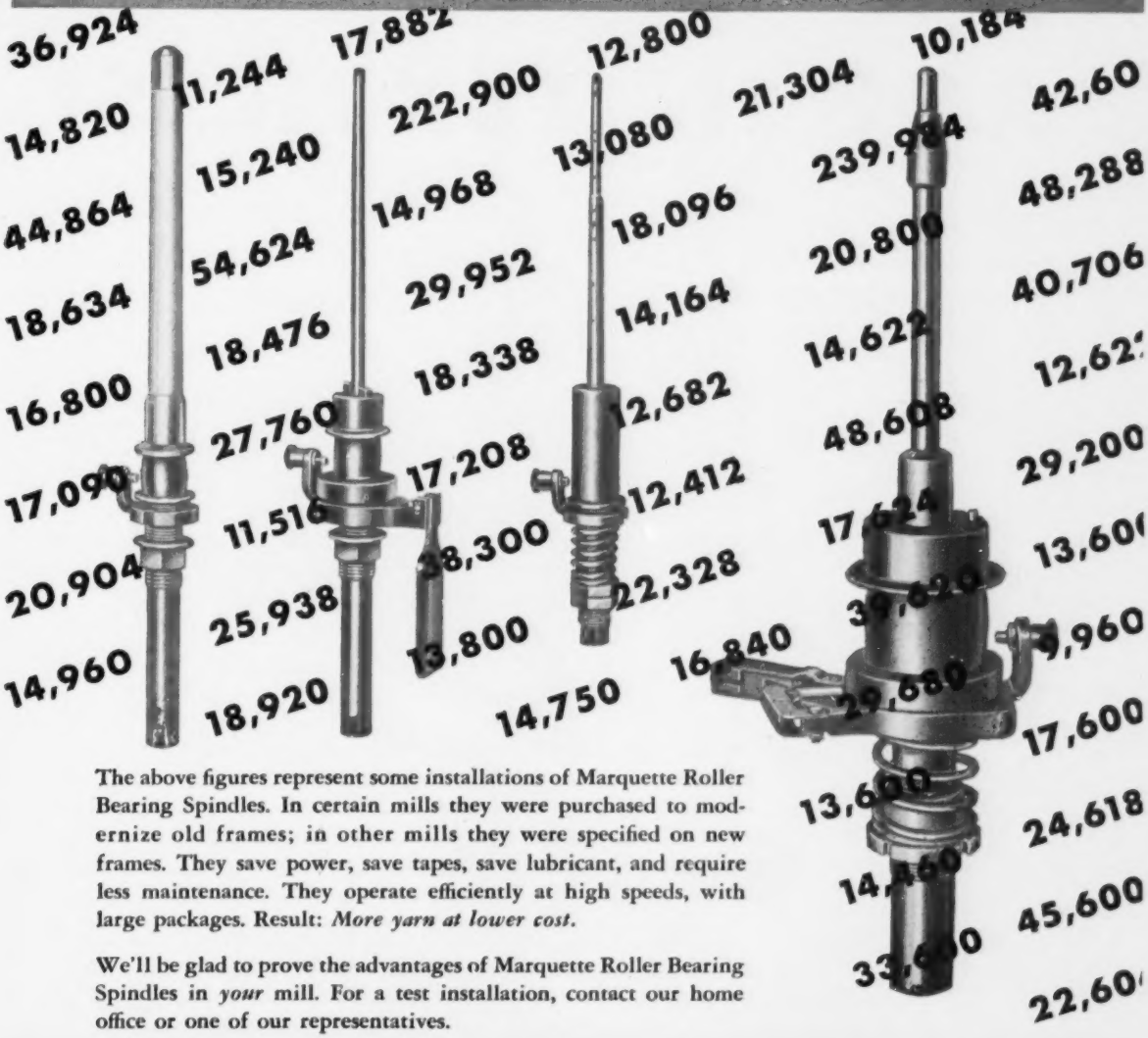
H. D. Carpenter, formerly superintendent of Imperial Cotton Mills, Eatonton, Ga., is now professor of yarn manufacturing in the textile school at Alabama Polytechnic Institute.

A. W. Vint was recently appointed director of research for American & Efird Mills, Inc., Mount Holly, N. C. Newly appointed as general superin-

Marquette roller bearing spindles

with FULL-FLOATING FOOTSTEP BEARING

for Cotton, Synthetics, Wool and Worsted



The above figures represent some installations of Marquette Roller Bearing Spindles. In certain mills they were purchased to modernize old frames; in other mills they were specified on new frames. They save power, save tapes, save lubricant, and require less maintenance. They operate efficiently at high speeds, with large packages. Result: *More yarn at lower cost.*

We'll be glad to prove the advantages of Marquette Roller Bearing Spindles in *your* mill. For a test installation, contact our home office or one of our representatives.

The Marquette METAL PRODUCTS COMPANY

CLEVELAND 10, OHIO • SUBSIDIARY OF CURTISS-WRIGHT CORPORATION

Representatives: C. R. WHITE, 2300 ROSWELL AVE., CHARLOTTE, N. C. • WILLIAM P. RUSSELL, BOX 778, ATLANTA, GA.

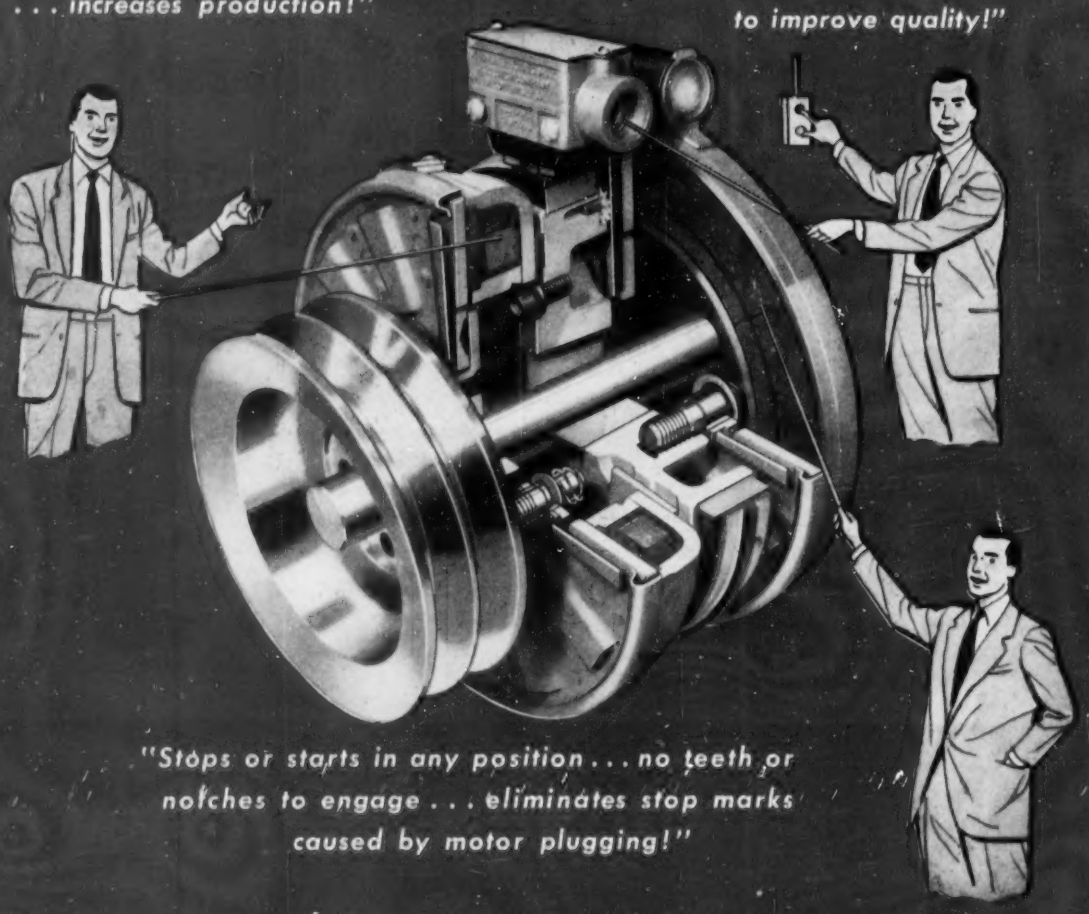
Also Manufacturers of: HYDRAULIC GOVERNORS • PRECISION PARTS AND ASSEMBLIES • WINDSHIELD WIPERS FOR AIRCRAFT
FUEL OIL PUMPS • FUEL OIL INJECTORS • ROTARY HIGH PRESSURE OIL FIELD PUMPING MACHINERY

Electro-magnetic drives
for machines you make or use bring

NEW PUSHBUTTON AGE IN TEXTILES!

"Electro-magnetic principle eliminates mechanical controls . . . increases production!"

"Easily wired into standard machine circuits . . . used with electric stop motion devices to improve quality!"



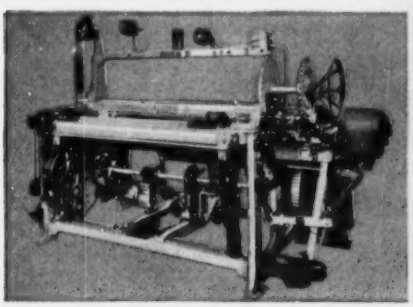
"Stops or starts in any position . . . no teeth or notches to engage . . . eliminates stop marks caused by motor plugging!"

Warner Electric Brakes and Clutches increase machine speed, quality...reduce maintenance!

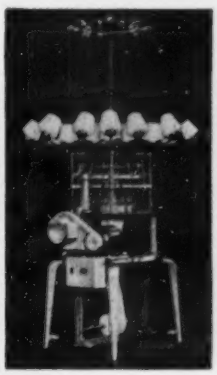
A new, pushbutton age . . . with increased productivity and easier, more automatic operation of textile machinery . . . is a reality made possible by a new type of machine control—Warner Electric Brakes and Clutches. Easily and quickly actuated, automatically or by pushbutton, Electric Brakes and Clutches operate without lost motion . . . *with accurately controlled torque* . . . permitting increased machine speed, production of higher quality textiles, reduced operating and maintenance costs.

Mills now using machines equipped with Warner Electric Brakes and Clutches are producing a higher percentage of top-quality textiles . . . eliminating brush, needle, and abrasion marks. Because frictional torque of these units becomes greater *in small increments* during flux build-up, starting and stopping is velvet smooth . . . yet faster than with any other power transmission control. They permit split-second synchronization of machine motions . . . precise, instantaneous operation of stop-motion functions.

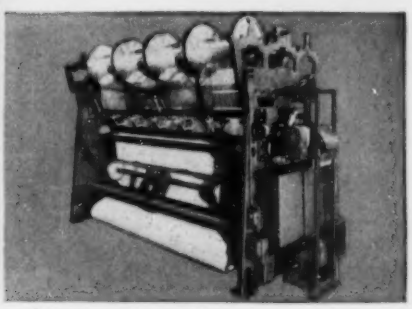
Machines below illustrate only a few of their numerous profit-boosting possibilities on practically every textile operation. For the complete story, contact your nearby Warner representative, or send coupon today.



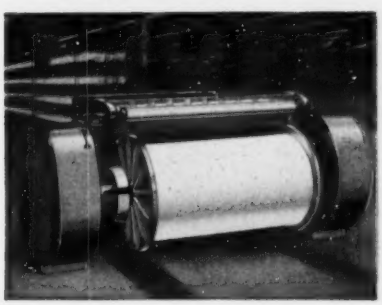
New Hunt HB-3 starts faster, stops automatically and accurately in predetermined position.



Smooth operation safeguards precision adjustments on Brinton Machine. Productivity increased.

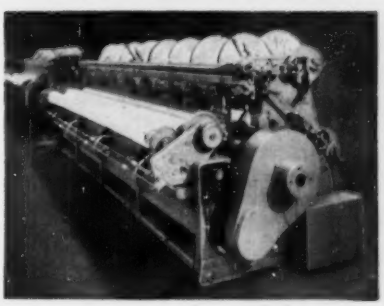


New Model E Kidde Knitter, controlled by Electric Clutch-Brake, is faster, safer, and easier to operate.



Electric Brake automatically stops Cocker High Speed Warper within 1½ yards. Eliminates lost ends. Permits higher speeds.

Permits ultra-high-speed stops and starts of Robert Reiner Tricot, eliminating nine out of ten stop marks.



SEE ELECTRIC BRAKES AND CLUTCHES DEMONSTRATED AT THE TEXTILE SHOW...BOOTH 855

Best Competition with

ELECTRIC BRAKES AND CLUTCHES

WARNER ELECTRIC BRAKE & CLUTCH CO.
Beloit, Wisconsin

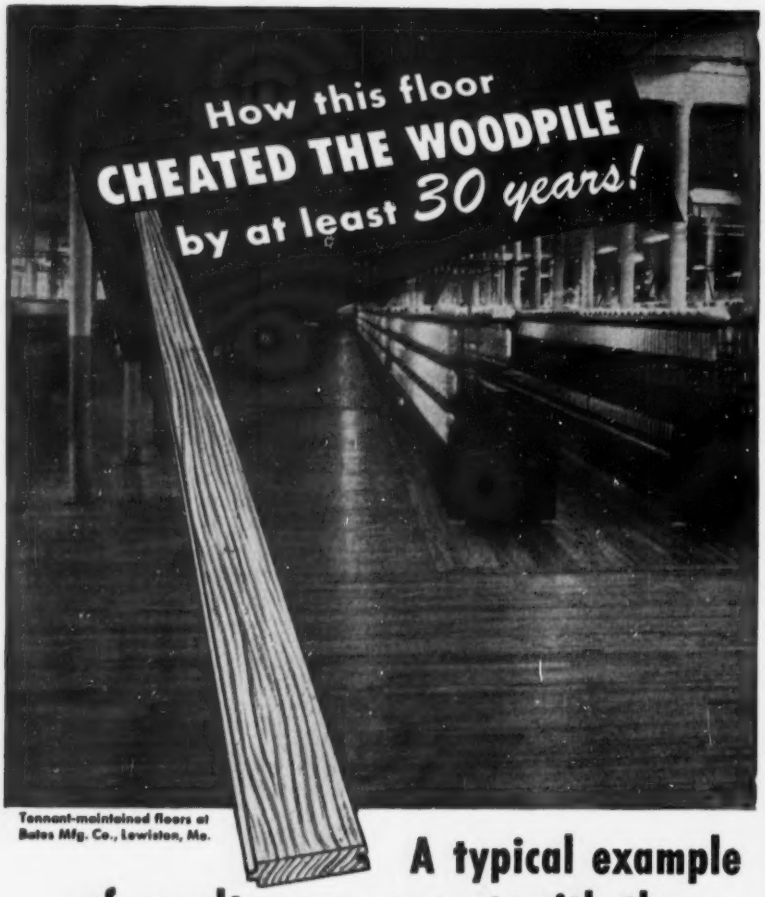
Warner Electric Brake & Clutch Co.
Dept. TI, Beloit, Wis.
Gentlemen: Please send new catalog describing Warner Electric Brakes and Clutches to:

Firm Name_____

Individual_____ Title_____

Address_____

City_____ State_____



Tennant-maintained floors at Bates Mfg. Co., Lewiston, Me.

A typical example of results you can get with the . . .

TENNANT FLOOR MAINTENANCE SYSTEM

Transformed like magic, this 30-year-old floor —once dark, rough and spongy from scrubbing—is now good for another 30 years. Saved from costly, premature replacement, it's been made bright, smooth and durable again—by low-cost reconditioning with the TENNANT System.

RECONDITIONS your floors. Gets rid of dark, rough, oil-soaked fibers . . . provides a smooth, bright, new-wood surface.

HARDENS floor surface by special sealing process . . . fills, binds and toughens fibers to resist dirt penetration.

DRY CLEANS; ends scrubbing! Avoids muss, saves manhours, reduces accidents . . . assures cleaner floors at LESS COST!

YOUR FLOORS STAY CLEAN longer when dry-cleaned instead of scrubbed! With this Tennant Floor Machine, dirt, grime and traffic stains are whisked off and picked up in 1 operation. Leaves smooth, hard, dirt-resistant surface . . . only daily care needed is fast, easy sweeping with dry cotton mop. No muss; easy to use; keeps floors looking like new.

- Reduces floor cleaning costs.
- Makes floors easy to clean.
- Prolongs floor life, aids safety.

G. H. TENNANT CO.
2524 North 2nd Street
Minneapolis 11, Minnesota

Write today! Ask for "New Floors From Old" article, also "Textile Floor Maintenance" bulletin, etc.

TENNANT FLOOR MAINTENANCE System

Established 1870

OFFICES IN PRINCIPAL CITIES

Personal NOTES ABOUT MEN YOU KNOW

tendent of the finishing division is **Horace S. Doan. Al Roy** is now superintendent of the dye plant; **Robert Henderson,** superintendent of the thread finishing plant; **Eugene Misner,** production manager, and **James Cole,** superintendent of maintenance.

Personnel changes at The American Thread Co. are: **Robert M. Pully,** from the Troutman (N. C.) Mill to superintendent of the Clover (S. C.) Mills; **Wiliam L. Rankin, Jr.,** assistant superintendent; **Fred T. Broyhill,** superintendent at Troutman; **James E. Burgin,** overseer of the domestic department at Sevier. New members elected to the board of directors are: **Robert O. Huffman,** president of Huffman Full Fashioned Hosiery Co.; **Malcolm G. Jones,** president of Robbins Mills, Inc.; and **E. B. Shaw,** vice-president in charge of manufacturing of American Thread.

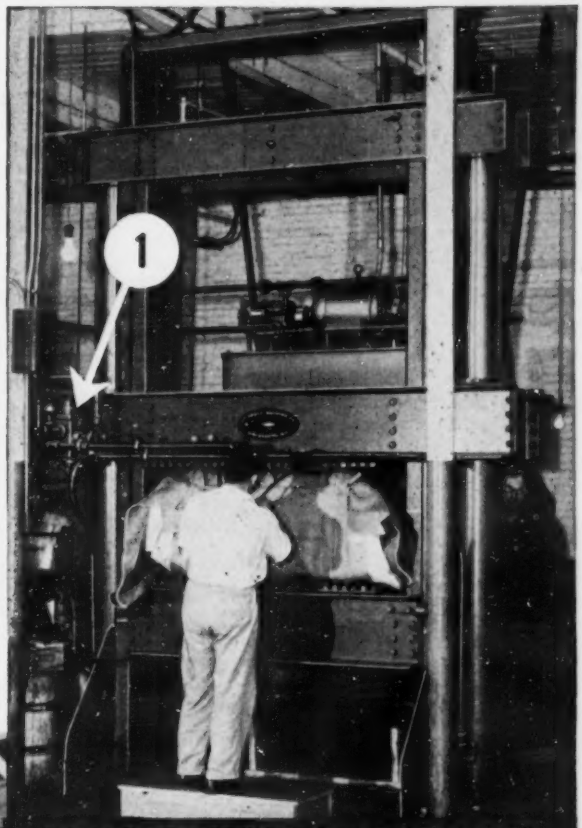
Roy A. Young was recently elected chairman of the board of American Woolen Co., Inc. **Francis W. White** continues as president and chief executive officer. Elected to fill vacancies on the board were: **E. Howard Bennett,** editor of America's Textile Reporter; **William J. Wardall,** director of Best Foods Inc.; **Albert A. Creek,** president of Central Vermont Public Service Corp. of Rutland; **Kurtz M. Hanson,** president of Champion-International Co.; and **C. A. Weissner,** divisional manager of manufacturing in the firm's woolen and worsted mills.

Walter J. Mooney has succeeded **James M. Beverly** as president of Ballston Stillwater Knitting Co., Ballston Spa, N. Y. Mr. Beverly continues as secretary.

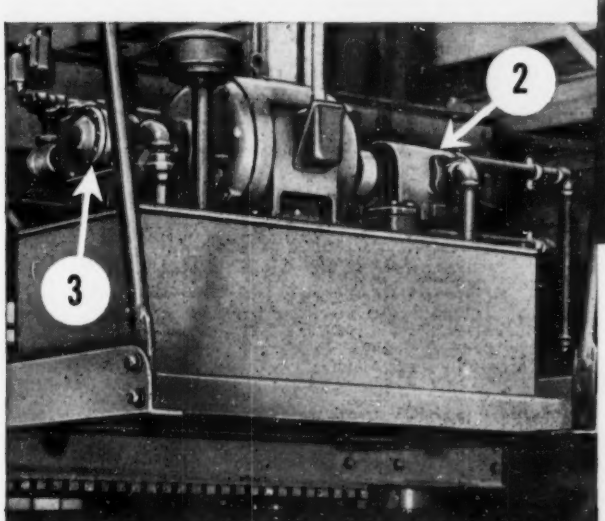
John Jowett has succeeded Robert D. Rainville as overseer of finishing at Bachmann Uxbridge Worsted Corp.'s main plant at Uxbridge, Mass. **Fred Moran** has replaced Frederick T. Snowling, retired, as superintendent of dyeing. **Harry Pfau** has resigned as superintendent of the Rivulet Mill.

Consolidated Textile Co. has announced the appointment of **Thad W. Hinson** as manager of the Ella division, Shelby, N. C. He had been assistant manager since 1945. **W. H. Hardeman,** who recently retired as

VICKERS®
HYDRAULIC EQUIPMENT
helps produce
BETTER BALES at *LOWER* COST



Beaty One-Floor Draw Bar Hydraulic Presses need no pit, are self-contained, complete more bales per hour, require less electric power, and the bales contain greater yardage of cloth. VICKERS Hydraulic Equipment is used exclusively. Press operation is conveniently controlled by hand lever on VICKERS 4-Way Valve (No. 1).



VICKERS Custom-Built Hydraulic Power Unit was designed and built to meet the particular needs of this press. A double-end motor drives two standard VICKERS Vane Type Pumps (No. 2 a small-volume pump for maximum operating pressure of 2000 psi; No. 3 a large-volume pump for maximum operating pressure of 1000 psi.) Both pumps deliver oil for the exceptionally fast closing of the press; during bale compression at 2000 psi, pump No. 3 is automatically unloaded to reduce power requirement to a minimum.

The advantages of using VICKERS Hydraulic Equipment as illustrated here by the Beaty Press are representative of what has been accomplished on many types of Textile machinery.

In the Textile industry, the use of Vickers Hydraulics is growing rapidly because of its adaptability, efficiency and economy. It offers exceptional advantages in simplification of design, ease of installation, accuracy and flexibility of control, and low maintenance. Automatic overload protection and inherent self-lubrication are additional highly desirable characteristics.

For further information about the benefit of Vickers Hydraulics ask our nearest Sales Application Engineering Office for a copy of new Textile Bulletin 54-66.

VICKERS Incorporated
DIVISION OF THE SPERRY CORPORATION
1554 OAKMAN BLVD. • DETROIT 32, MICH.

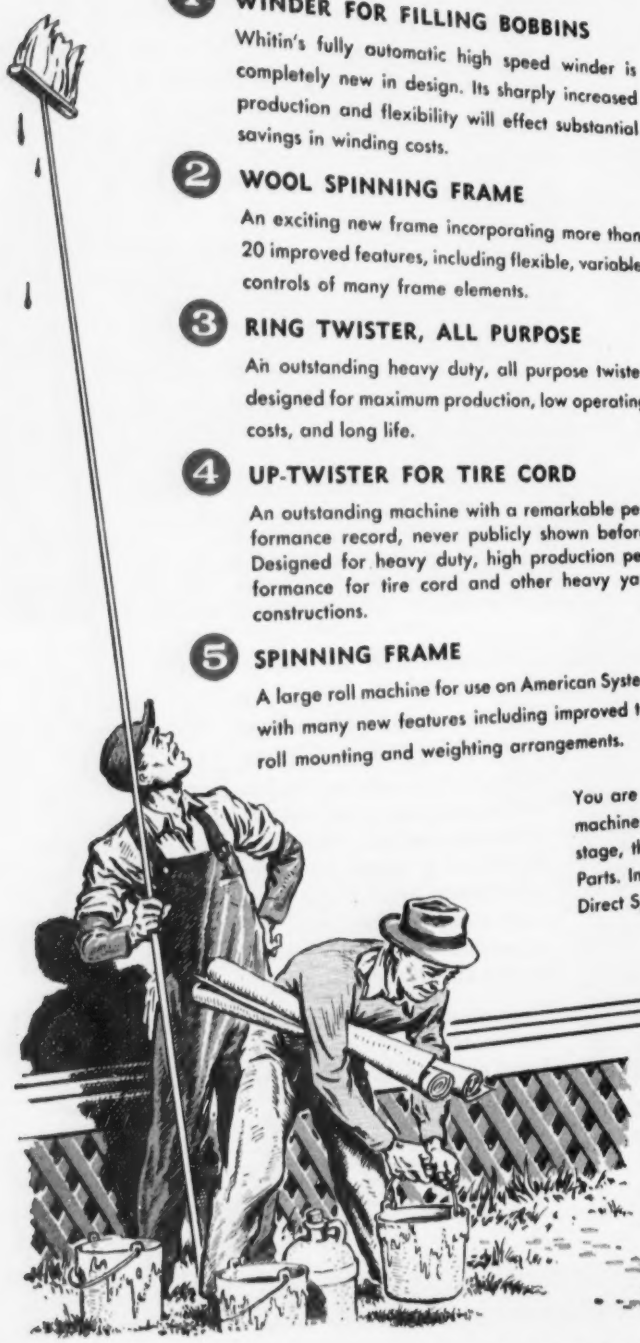
Application Engineering Offices: ATLANTA • CHICAGO AREA (Brookfield) CINCINNATI • CLEVELAND • DETROIT • HOUSTON • LOS ANGELES AREA (El Segundo) • NEW YORK AREA (Summit) • PHILADELPHIA AREA (Media) • PITTSBURGH AREA (Mt. Lebanon) • ROCHESTER ROCKFORD • SAN FRANCISCO AREA (Berkeley) • SEATTLE • TULSA WASHINGTON • WORCESTER

6792

ENGINEERS AND BUILDERS OF OIL HYDRAULIC EQUIPMENT SINCE 1921

No longer under wraps...WHITIN'S "BIG 10"

You'll see them all in operation at the "show"



1 WINDER FOR FILLING BOBBINS

Whitin's fully automatic high speed winder is completely new in design. Its sharply increased production and flexibility will effect substantial savings in winding costs.

2 WOOL SPINNING FRAME

An exciting new frame incorporating more than 20 improved features, including flexible, variable controls of many frame elements.

3 RING TWISTER, ALL PURPOSE

An outstanding heavy duty, all purpose twister designed for maximum production, low operating costs, and long life.

4 UP-TWISTER FOR TIRE CORD

An outstanding machine with a remarkable performance record, never publicly shown before. Designed for heavy duty, high production performance for tire cord and other heavy yarn constructions.

5 SPINNING FRAME

A large roll machine for use on American System, with many new features including improved top roll mounting and weighting arrangements.

6 ROTO-DRAFTER

Introducing an entirely different type of machine for processing top on the American System. This is probably the most versatile textile machine ever produced.

7 ROVING FRAME

A large roll American System frame also with improved top roll mounting and weighting arrangement.

8 ROVING FRAME

A profit-making 12" x 6½" roving frame featuring the renowned Whitin Inter-Draft system. The bobbins hold up to 55 oz. of roving and result in large savings in spinning creeling.

9 DRAWING FRAME

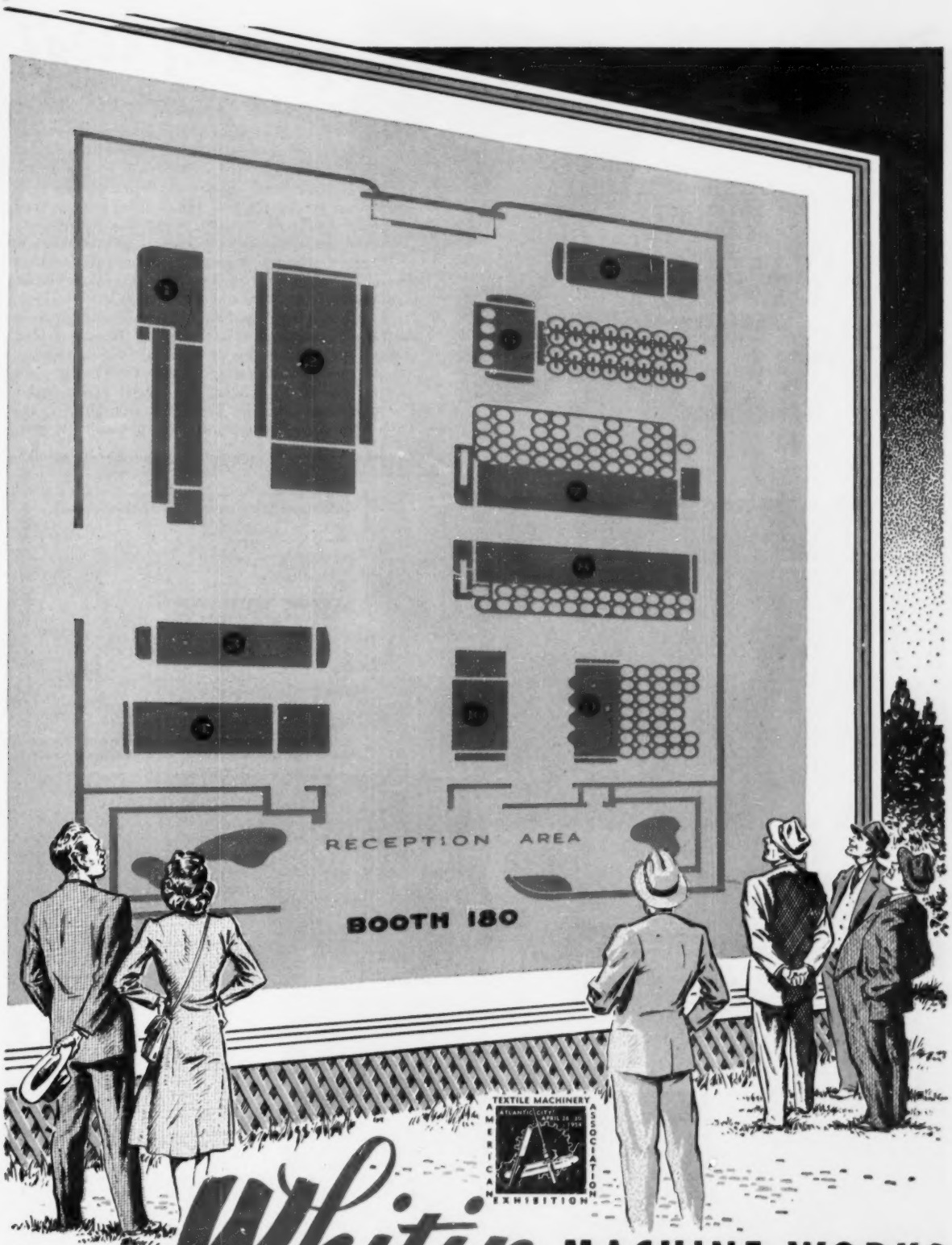
The latest Whitin draw frame producing even high quality sliver for cotton or synthetic fibers.

10 SPINNING FRAME

A large package, long traverse spinning frame featuring many improvements in overall design, the head end, and the drafting zone area. The frame will be equipped with two modern types of drafting assemblies.

You are cordially invited to visit our Main Booth 180 to see the machines described above in operation. Also, in Booth 24 on the stage, there will be a display of Whitin Repair and Replacement Parts. In addition, at Booth 289, there will be displayed a Stains Direct Spinner, for which the Whitin Machine Works is now agent.

Whitin, with its unsurpassed engineering and manufacturing resources, has spent years in developing, testing and perfecting these machines for but one purpose — to enable mills to operate more profitably in a competitive market — to produce more, and higher quality, textile products at lower cost.



Whitin MACHINE WORKS

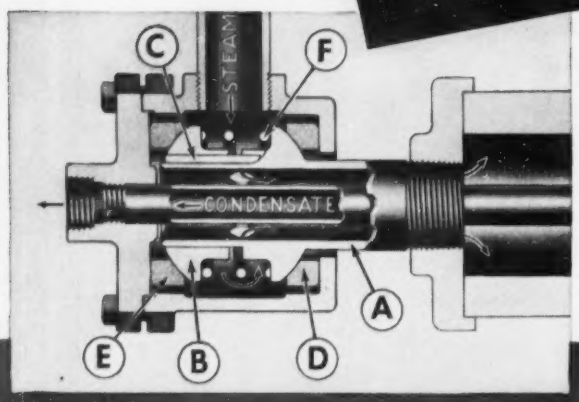
WHITINSVILLE, MASSACHUSETTS

CHARLOTTE, N. C. • ATLANTA, GA. • SPARTANBURG, S. C. • DEXTER, ME.

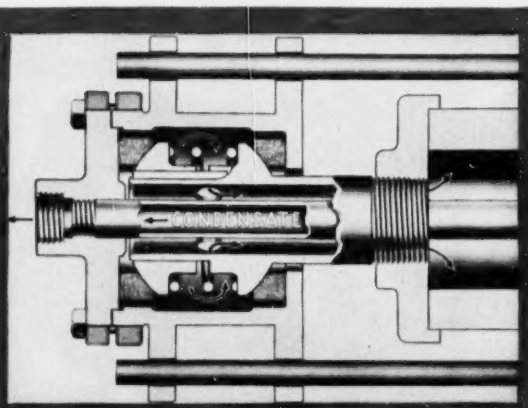
There's a new JOHNSON Rotary Pressure JOINT for every need!

Year after year, in many thousands of installations, mill men have found that the best known way to put steam into, and remove condensate from rotating rolls and drums, is with Johnson Joints. They have proved unmatched in their ability to slash operating costs and boost operating efficiency. Now the newly designed Johnson Joints offer substantial savings in size, weight and price. Also, the effective thickness of the seal rings has been increased as much as 25%.

Shown here are the basic Johnson Joints, with the Type J illustrated at left. Like all Johnson Joints, the Type J is completely packless, self-lubricating and self-adjusting. There is flexibility built right in to provide for lateral and angular misalignment. The Type J is available in the through flow type, and in syphon pipe type.

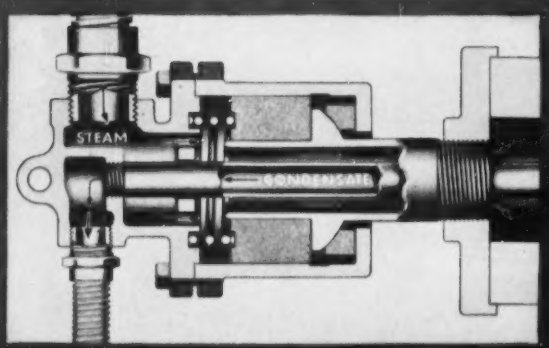


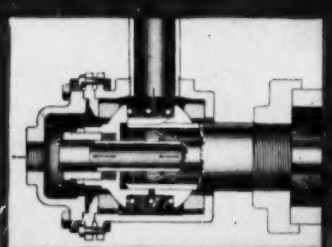
This illustration shows the simplicity of the design and construction of the Type J. The arrows show how steam enters the joint through inlet to body, passes through parts into the nipple and then into the roll or cylinder. Condensate is removed through the head. The rotating member consists primarily of just two parts—the nipple (A) and the thrust collar (E) which slides freely and relatively over the nipple but is keyed to it at (C). Both of these parts have extremely hard, chrome-plated surfaces as shown, which rotate against the stationary concave surfaces of two special carbon graphite rings (D) and (E). The spring (F) maintains an initial sealing pressure within the joint, which forces the seal ring (D) against the nipple. The higher the pressure, the tighter the seal. The ring (E) serves as a bearing for the thrust collar.



TYPE L—LUG SUPPORTED

One of the most popular methods of installation of the Johnson Joint employs simple support rods which fit into lugs cast right on the body of the joint. This provides "floating action"—that is, since the weight of the joint and connections are carried by the support rods, the rotating assembly "floats" freely inside and has only its primary task of sealing to do.





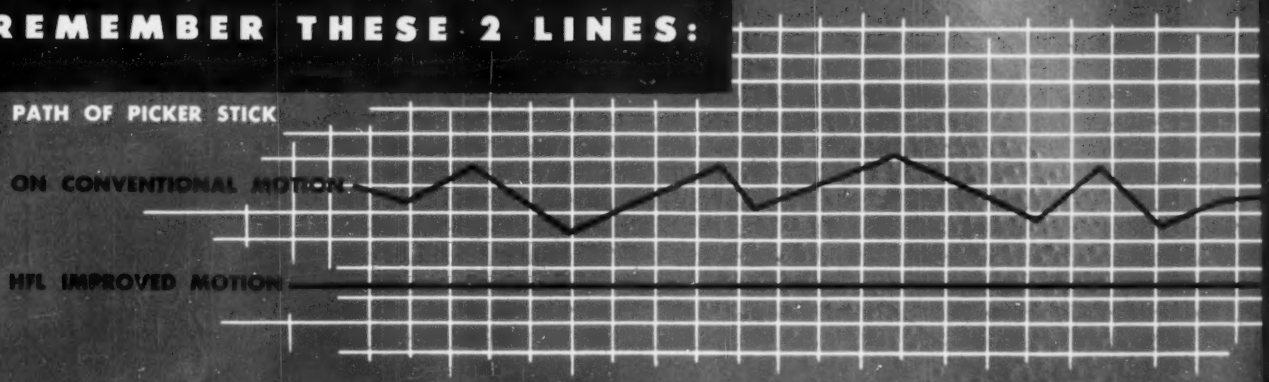
Products of The Johnson Corporation

815 Wood St., Three Rivers, Mich.

Rotary Pressure Joints • Compressed Air Separators and Aftercoolers
Direct Operated Solenoid Valves • "Instant" Steam Water Heaters

for your Parallel Picking Motion,

REMEMBER THESE 2 LINES:



These are not symbolical lines . . . they are lines that show graphically the actual smoothness of operation now obtainable in the new

HFL IMPROVED PARALLEL PICKING MOTION

It doesn't take much imagination to visualize the high percentage of improvement in quality of your weave room production, and reduction of down time on your looms, when you use the radically new HFL Improved Parallel Picking Motion!

This opportunity for startling improvement in loom operation is quite typical of the entire line of

HFL IMPROVED LOOM PARTS

Send for a descriptive circular

You will be amazed at the comparative data shown, and with the many outstanding advantages now possible with the HFL Parallel Picking Motion.

HFL
IMPROVED LOOM PARTS

ESTABLISHED 1887

H. F. LIVERMORE CORPORATION

EXECUTIVE OFFICES & PLANT
BOSTON 34, MASS.

SOUTHERN DIVISION
GREENVILLE, S. C.

SOUTHWESTERN DIVISION
DALLAS, TEXAS

America's best-dressed Best Sellers use

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Action Packages

Money *moves* when customers come within range of your product dressed to go places—in a sales-compelling **a-pac-o** Action Package. Whether your problem is one of construction, use or price, you'll find the right package at **a-pac-o,** creators of some of America's best-dressed *best sellers.*

ATLANTA PAPER COMPANY
Atlanta 2, Georgia

Natural package-partners!

Your **a-pac-o** Display Folding Cartons arrive factory-fresh when you ship in handsome, rugged **a-pac-o** Corrugated Shipping Cases. *Write or phone for samples and prices.*

CHARLOTTE, N. C. • CHICAGO, ILL. • COLUMBUS, GA. • GREENVILLE, S. C. • KNOXVILLE, TENN. • MACON, GA. • NEW YORK, N. Y.

New Pickers for Old

Your old pickers can be rebuilt exactly like new machines. The basic design of a picker has not changed in more than 40 years, and therefore a thoroughly modern picker can be built right into the old frames at a big saving in cost. The old frames are valuable, and are just as good as new ones.

Where it is not feasible to send your pickers to us for rebuilding, we will exchange them for rebuilt pickers of the same model. Our truck delivers a new picker at your plant and takes away an old one. The new picker can be making laps the day after it is delivered.

Where pickers do not need complete rebuilding, but should have a thorough overhauling, this work can be done right in your picker room with one of our skilled machinery erectors in charge of the work.

We keep a large stock of picker repair parts always on hand, and fill repair orders within 24 hours after their receipt. In an emergency, telephone us in the morning and you can have the picker repair parts at the mill the following day, if you are within about 100 miles of Greenwood.

Aldrich Machine Works

Greenwood, South Carolina

REPUTATION

IS MIGHTY IMPORTANT . . .

TO THE LEADER OF A GANG AND TO A TEXTILE MILL SELECTING AN ELECTRICAL CONTRACTOR.

And a *good* reputation is not easy to come by in either case.

When it comes to an electrical contractor for your mill, you'll be sure of a quality job if you call in J. M. CLAYTON COMPANY, always mentioned wherever quality textile electrical installations are being discussed. Reason?

We've served the textile field for 48 YEARS!

J. M. CLAYTON CO.

Contracting Electrical Engineers

ATLANTA, GEORGIA

Personal NOTES ABOUT MEN YOU KNOW

active manager of the Ella and Kings Mountain divisions, will continue as consultant for both plants.

C. A. Warnock is now New England district manager of Belding Heminway Co., Inc. He succeeds Frank Southard, resigned.

New superintendent of the Steele Plant of Burlington Mills Corp. is **Olin C. Shedd.** He replaced J. H. Robbins, resigned. Mr. Shedd was previously in the spinning division at Fayetteville.

J. Irving Roy, president, and **MacMillan Boyd,** vice-president, recently resigned from Canadian Cottons, Ltd., Montreal, Quebec. **L. C. Bonnycastle,** chairman of the executive committee, has been named president.

Frank T. Shiverick was recently made manager of the women's knit division of The William Carter Co. He formerly was manager of the women's lingerie division.

William M. Butler has been promoted from comptroller to vice-president of Chatham Manufacturing Co., Elkin, N. C. **John L. Morehead,** president of Leaksville Woolen Mills, was named a member of the board of directors.

Frank E. Cantrell was recently made superintendent of the Florence Plant of Cone Mills Corp., near Forest City, N. C. He succeeded Harold A. Deal, retired.

Charles J. Alexander was recently named executive vice-president of Crown Woolen Mills Corp. He will continue as director of sales.

Ed Dickard has been transferred from the Calhoun Mills of Ely and Walker to Poe Mills, Greenville, S. C., as personnel supervisor. He is succeeded at Calhoun by **Densel Dockery.**

Fieldcrest Mills has announced the promotion of **R. H. Tuttle,** formerly director of research and quality control, to manager of engineering, research, quality control, and supply purchasing. **A. G. Singleton** is director of engineering, **J. M. Geer,** of supply purchasing, and **J. J. Bedell,**

"Set" for Life

AUTOMATICALLY . . .
THOROUGHLY . . .
and QUICKLY by
TURBO PENETRATION

There's a sure way to heat-set or steam-set synthetic yarns, fabrics or garments — like the Nylon sweaters shown here.

It's Turbo penetration — using the production-proved Turbo setting cabinet with forms or containers mounted on a collapsible conveyor that moves in and out of the cabinet. Provides alternating cycles of pressure and vacuum, if required. Setting time accurately controlled. Takes all the guess-work out of setting operations. Increases production.

Turbo "penetration" is a feature of many Turbo special-purpose machines now in use in leading mills. This same principle can be applied in the solution of your setting problem. Talk to the Turbo representative without delay — the coupon is for your convenience.

TURBO MACHINE COMPANY
LANSDALE, PA., U.S.A.

Southern Representative: F. W. Warrington Co., Charlotte, N. C.
"Builders of Precision Machines for a Quarter Century"

Turbo Cabinet is adaptable for wet or dry heat, under pressure or vacuum. Automatic timing and controls take guess-work out of operation.

TURBO
SINCE 1929

Send literature or information on Turbo Machine for:

- ☐ Preboarding/Boarding Nylon Stockings
- ☐ Sweater Setting
- ☐ Pleat Setting
- ☐ Crimp Setting
- ☐ Yarn Processing

Have Turbo Representative call to discuss special-purpose machine for following application:

.....

NAME .....

COMPANY .....

ADDRESS .....

packaging coordinator. **R. C. Tanner** has taken over Mr. Tuttle's former position. **J. T. MacIsaac** is now head of mechanical development; **R. A. Harris,** formerly assistant manager of the Blanket Mill, is now assistant comptroller; **H. T. Bundy,** assistant manager of the Sheeting Mill, is also assistant manager of the Blanket Mill.

New vice-presidents of Erwin Mills, Inc., Durham, N. C., are **N. A. Gregory,** formerly assistant treasurer, and **L. C. Thomas,** previously assistant secretary. Mr. Gregory will be concerned with sales, and Mr. Thomas with manufacturing.

Clarence E. Elsas, president of Fulton Bag & Cotton Mills, Atlanta, Ga., was re-elected president of the Textile Bag Manufacturers Association. Vice-president is **Richard K. Peek,** Percy Kent Bag Co.

Clare Bedell has left Draper Bros., Canton, Mass., to become superintendent of the fabrics division of

NON-FLUID OIL
TRADE MARK REGISTERED

UPS LOOM PRODUCTION!

Drip-proof, waste-proof NON-FLUID OIL, the leading lubricant in the textile field, *ups* loom production and outlasts ordinary oils 3 to 5 times. It remains *in* the bearings where it belongs—and off the goods and floor—providing *constant* lubrication, keeping machines in *steady* service, and holding *down* oil bills.

Dripping, leaking ordinary oil lowers loom production because it won't stay in bearings but creeps and spatters on warps, goods, and floor, causing oil spot "seconds".

A-No. 00000 grade NON-FLUID OIL is recommended for general oiling of looms. Write for Bulletin T-20 together with a free testing sample and prove for yourself that NON-FLUID OIL provides cleaner and better loom production at less cost than ordinary oils.

VISIT US AT BOOTHS 41 and 42: AMERICAN TEXTILE MACHINERY EXHIBITION, ATLANTIC CITY, N. J. • April 26 to 30.

NEW YORK & NEW JERSEY LUBRICANT COMPANY
295 MADISON AVE. NEW YORK 17, N. Y.
WORKS NEWARK, N. J.

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Providence, R. I.

NON-FLUID OIL is not the name of a general class of lubricants, but is a specific product of our manufacture.

Personal NOTES ABOUT MEN YOU KNOW

Gloversville (N. Y.) Knitting Co.

Jack A. Crumbee was recently made assistant superintendent of the nylon division at the Atco, Ga., mill of Goodyear Tire & Rubber Co. He succeeds **P. W. Beggs,** now at Rockmart, Ga.

Greenwood (S. C.) Mills has appointed **M. V. Wells** personnel director for all five plants of the company. He was previously with Klopman Mills, Ashboro, N. C.

Roger E. Gay was recently elected president of The How Knitting Co., New Britain, Conn. He is also presi-

Mr. Gay

dent of The Bristol (Conn.) Brass Corp. Other officers elected are: **Edmond H. Taylor** and **William C. Oquist,** vice-presidents; **Harry C. Olmstead,** treasurer; and **Frederick W. Beach,** secretary.

Jewett M. Smith has retired as production manager of the Interwoven Stocking Co., Martinsburg, W. Va.

E. L. Holt has resigned as superintendent of the Piedmont Cotton Mills, East Point, Ga., and is now superintendent of the Juliette (Ga.) Milling Co.

George Zeigler has been appointed purchasing agent at the southern headquarters of Kendall Cotton Mills. He succeeds W. E. Prescott, now in the central purchasing office at Walpole, Mass.

Melvin J. Feins has been named general manager of M. & K. Knitting Mills, Inc., Lancaster, N. H. He was previously manager of Laurens (S. C.) Hosiery Mills, an M. & K. subsidiary.

Herbert C. Gates, previously superintendent and general manager of the

TIME SAVER

CARTER TRAVELERS

Smooth running work with a minimum of ends down is time—and money—saved. CARTER TRAVELERS give you just that, because they are manufactured with the same degree of precision and workmanship found in a fine watch.

The next time—save time and money—with CARTER TRAVELERS.

BOYCE WEAVER'S KNOTTER

The BOYCE WEAVER'S KNOTTER is much more than a mechanical aid to increased production. It is a quality control that contributes materially to other processes and the finished product.

. . . The smooth, fast action with which a BOYCE WEAVER'S KNOTTER ties a perfect weaver's knot and clips the ends clean and even, sets a quality standard from which profits are made.

If you want to meet today's production demands profitably, write for further information.

CARTER TRAVELER CO. **MILL DEVICES CO.**

TEXTILE MACHINERY AMERICAN ASSOCIATION EXHIBITION

Divisions of

A. B. CARTER, Inc.

GASTONIA, N. C.

Visit us in our Booth No. 38-58-AA American Textile Machinery Assoc. Exhibition

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W. L. Rankin ..... 501 S. Chester St. Gastonia, N. C.	J. K. Davis ..... P. O. Box No. 129, Auburn, Ala.
P. L. Piercy ..... 128 Hudson St. Spartanburg, S. C.	C. E. Herrick ..... 44 Franklin St., Providence, R. I.
J. R. Richie ..... 3014 Lewis Farm Road, Raleigh, N. C.	Hugh Williams & Co. ..... 47 Colborne St., Toronto 1, Canada
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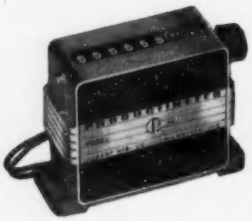
PRODUCTIMETER Progress

PICK COUNTER

PICK COUNTER (Model 4-PC-R-3) — Introduction of this improved model provided better readability and easier operation. The heavy drive construction assures trouble-free performance. It is tamper proof, dust proof and rust proof.

"Y" ELECTRIC



"Y" ELECTRIC — High speed, accurate, with maximum readability. Totally enclosed in compact new type case for protection against dust and moisture. Operates accurately over wide current fluctuations.

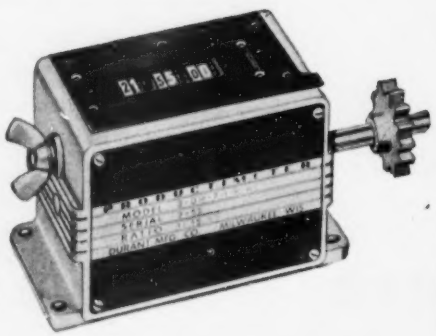
New Finish on Entire Line!

Attractive Alaska Gray and Seal Brown Combination.

DURANT DOFFMETER

The Durant Doffmeter is a compact, predetermined counter designed to cut off the loom or signal when the preset number of yards is reached. Eliminates cut marks and waste ends by assuring uniform yardage . . . simplifies inventory control.

Present day high costs make the installation of Durant Doffmeters on every loom a practical money saving investment. Plan now . . . write or contact us for detailed information.



DURANT MANUFACTURING COMPANY

1973 N. BUFFUM ST. MILWAUKEE 1, WIS. | P. O. BOX 3598—HB-73 GREENVILLE, S. C. | 173 S. WATER ST. PROVIDENCE 3, R. I.

Representatives in Principal Cities

Send for Catalog No. 501

PRODUCTIMETERS *Count Everything* — 75th ANNIVERSARY

Personal NOTES ABOUT MEN YOU KNOW

Bennington, Vt., plant of E-Z Mills, Inc., has accepted a position with Monarch Knitting Co., Ltd., Toronto, Ontario, as superintendent of its Dunnville, Ont., knitting plant.

Thomas Crowe, recently retired from Kendall Co., is now associated with the Lyerly Cotton Co., of Charlotte, N. C.

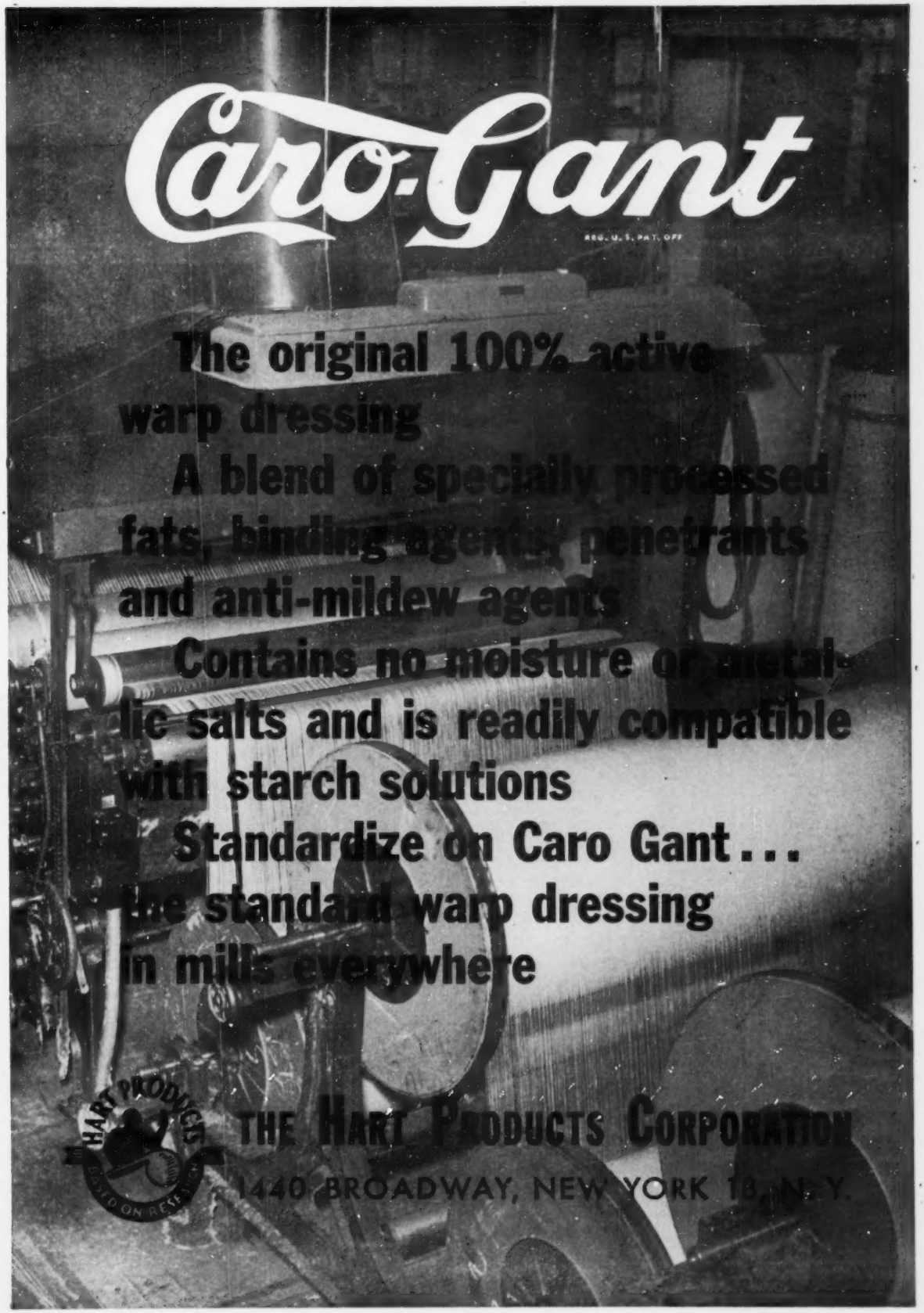
Sydney M. Cone, Jr., Cone Finishing Co., has been succeeded as president of the National Association of Finishers of Textile Fabrics by **Walter R. Howell** of Bradford Dyeing Association (USA).

1954 officers of the National Cotton Council are: **Harold A. Young,** chairman of the board; **A. L. Durand,** president; **B. L. Anderson, L. T. Barringer, H. L. Wingate,** vice-presidents; **W. T. Wynn,** treasurer; and **William Rhea Blake,** executive vice-president and secretary. **Oscar Johnston** is founder and honorary chairman of the board. On the board of directors in the spinning division are: **A. K. Winget, Fred W. Symmes, Charles C. Hertwig, J. Craig Smith,** and **A. B. Emmert. Ed Lipscomb,** director of sales promotion and public relations for the Council, recently received his third award from the Freedoms Foundation. The Valley Forge patriotism organization presented the 1953 George Washington Honor Medal for a speech entitled "Let's Get Lost," given in November, 1952, when he retired as president of the Public Relations Society of America.

Henry A. Rutherford, head of the department of textile chemistry, School of Textiles, North Carolina State College, is now also director of chemical research. **G. Meares Randolph** has been appointed a research associate in charge of dyeing projects.

Robert C. Wilkie has been promoted to the new post of assistant director of research of Pacific Mills Craft Fabric Division. Mr. Wilkie is the inventor of the Pacific converter, now in wide use in textile mills here and abroad, and of other textile machines and processes.

Newly elected president of the Skein Dyers Association of America is **Baptiste Lanza,** consultant. **Ralph**


Caro-Gant
REG. U. S. PAT. OFF.
The original 100% active warp dressing
A blend of specially processed fats, binding agents, penetrants and anti-mildew agents
Contains no moisture or metallic salts and is readily compatible with starch solutions
Standardize on Caro Gant... the standard warp dressing in mills everywhere
HART PRODUCTS
THE HART PRODUCTS CORPORATION
1440 BROADWAY, NEW YORK 18, N. Y.

Dayco Rub Aprons

Up Yarn Uniformity

Actual Mill Runs Reveal that Dayco Rub Aprons Not Only Improve Yarn Quality but Reduce Eccentric Motion as much as 30%

Dayco Rub Aprons do this because they have a greater co-efficient of friction. Yet, they're *not* affected by abrasion resulting from constant rubbing.

Dayco Rub Aprons are especially designed to stand up under constant flexing action. You get improved performance over a longer period of time with these superior aprons.

Here are a few of the ways in which you benefit through use of Dayco Rub Aprons:

Daycos are easy to adjust. And, once adjusted, they "stay put" . . . and speed up condenser operation.

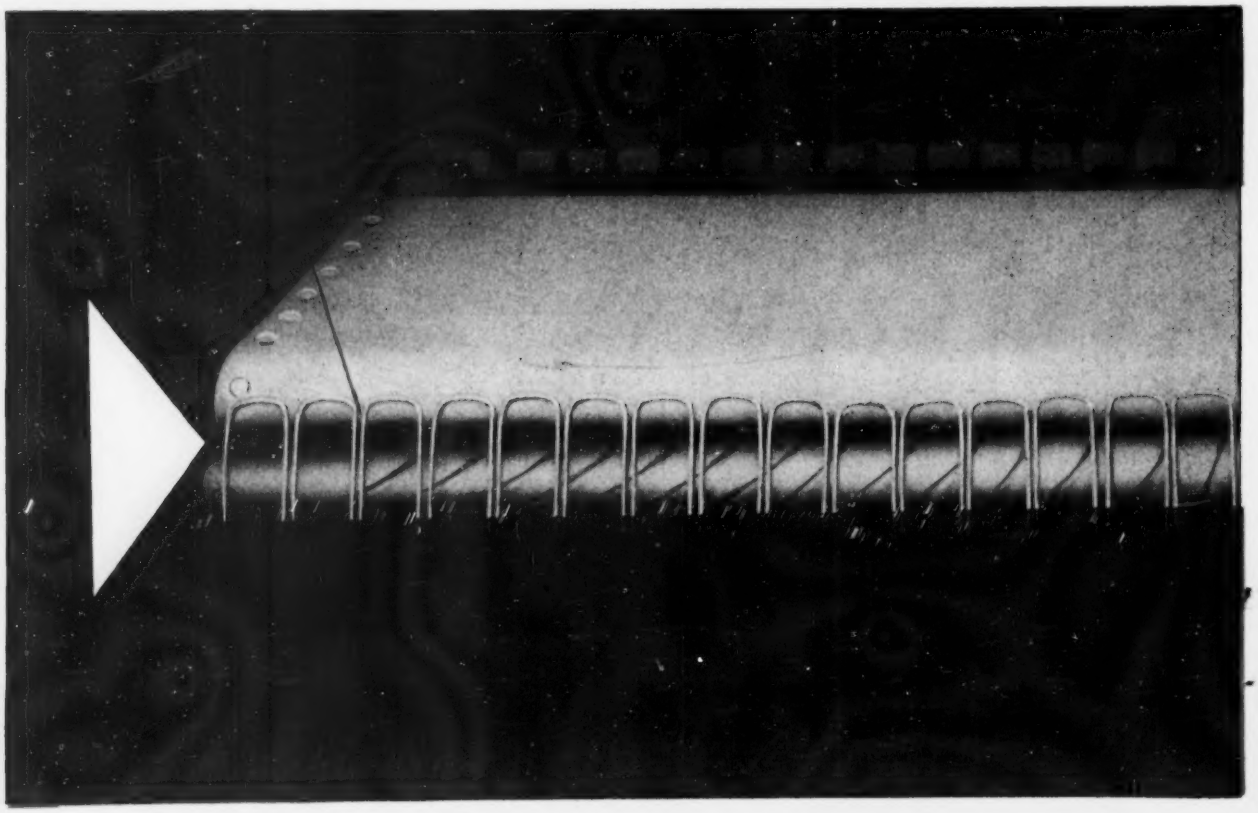
Daycos do not generate static. Thus, they free you from this nuisance. And they're *not* affected by either humidity or daily or seasonal changes in temperature.

Daycos *do not* absorb color pigments from dyed wool, or become slick from constant use.

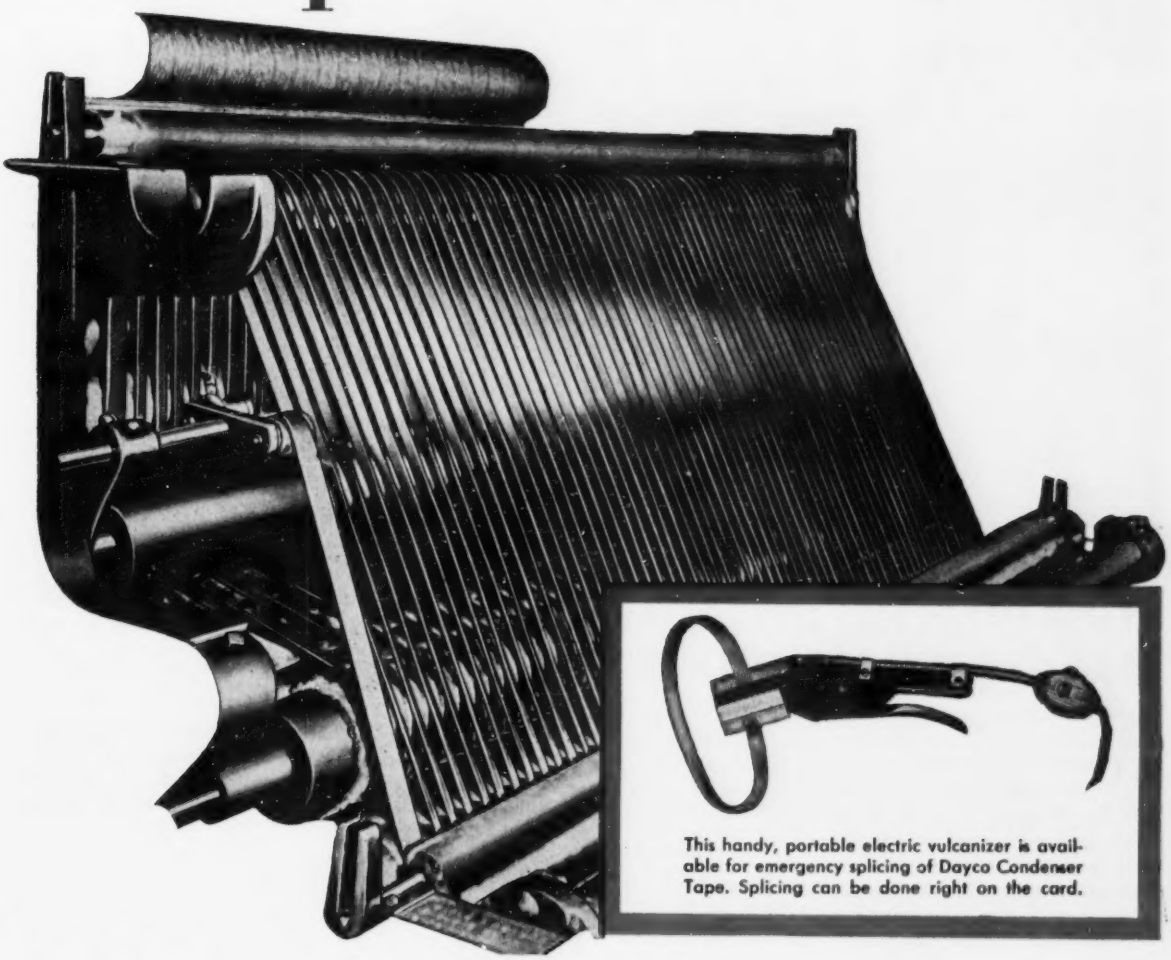
Daycos give better density to yarn . . . and increase the yarn output per machine.

How to order Dayco Aprons:

To insure proper fit, specify (1) minimum center-to-center settings of driving rolls, (2) diameter of driving rolls and (3) length of face of driving rolls. If this information is not available, furnish overall length and inside circumference of present aprons.



33% per Machine



This handy, portable electric vulcanizer is available for emergency splicing of Dayco Condenser Tape. Splicing can be done right on the card.

And Dayco Condenser Tape gives you better web uniformity

Dayco Condenser Tape is made of the highest quality compounds. It has no permanent stretch, hence it does not require frequent take-ups by the tension device.

Daycos fit the roller grooves so perfectly, they prevent uneven splitting of the roving, thus insuring more uniform yarn or rovings from the card.

Daycos have less tendency to turn over or twist in operation. They're unaffected by oil, and static free, and are therefore easier to keep clean.

Dayco Condenser Tape is available in widths and lengths to fit all cards. To order, write direct to Dayton Rubber Co., Textile Division, Dept. 364. Specify width, length desired.

Dayton Rubber

© D.R. 1954

Since 1905

Textile Products for Better Spinning and Weaving

Dayton Rubber Co., Textile Division, Woodside Bldg., Greenville, S. C.

How to Attack Operating Costs

Hyster 2,000-lb Lift Truck with Cotton Load-Grab job-attachment stacks bales quickly and easily to the rafters in this warehouse. No pallet is used. Load-Grab grasps bales from the sides. Load-Grab arms are interchangeable for use with pallets and other materials. Same Hyster lift truck unloads freight cars, transports box boards and loads out finished product—thus freeing manpower for other work.

HYSTER LIFT TRUCKS SPEED BALE HANDLING, LOAD AND UNLOAD WITHOUT PALLETS

Hyster materials handling equipment dealers can prove that better materials handling methods will reduce operating costs from 10% to as much as 80%! Even businesses with good profit records can often reduce operating costs *still further!* So why wait to improve your materials handling methods? Here's how to do it!

Job Analysis—Your Hyster® dealer offers a complete analysis of your present handling methods (at no obligation to you)—otherwise how would you know that you can cut your costs *still further?*

The Right Truck—Your Hyster Dealer will place the *right* industrial truck on your job, with the *right* job-attachment. Hyster offers a complete line of lift trucks, tugs, transporters, mobile cranes and Straddle Trucks—with capacities from 1,000 to 30,000 lbs — and over 100 job-attachments!

Costs Little to Own and operate. Hyster Lift Trucks often work for less than $1.50 per hour! After truck pays for itself, *all* your materials handling savings are pure profit.

Complete Service—Besides job analysis, your Hyster Dealer near you offers complete parts and field service, modern shop facilities, and specially-trained mechanics. Call your Hyster Dealer today. You incur no obligation and you might make a great deal more profit. Or write for Booklet 1258.

THERE'S PROFIT IN
HYSTER
POWER

HYSTER COMPANY
2902-57 N. E. Clackamas.....Portland 8, Oregon
1010-57 Myers Street.....Danville, Illinois
FOUR FACTORIES: Portland, Oregon; Danville, Illinois; Peoria, Illinois; Nijmegen, The Netherlands

HYSTER

Personal NOTES ABOUT MEN YOU KNOW

Gutekunst, Hellwig Dyeing Corp., was elected vice-president, and **Fred Kern,** F. P. Maupai Dyeing Co., was made secretary-treasurer.

The Alpha Chapter of Phi Psi textile fraternity, Philadelphia Textile Institute, recently inducted as honorary members **Dean M. Lewis,** secretary and treasurer, Colonial Piece Dye Works, and **Horace T. Greenwood, Sr.,** president, Globe Dye

Walter Fancourt, 3rd, (left) Phi Psi Grand Council President, congratulates honorary members Lewis and Greenwood.

Works. The Charlotte, N. C., chapter of the fraternity awarded an honorary membership to **H. K. Hallett,** vice-president and general manager of Kendall Cotton Mills.

Textileather Corp. has announced the following new assignments: **de Forrest Lott,** vice-president-development; **John A. Weber,** general production manager of the Textileather and Toledo dye works divisions of the company. **Edward G. Hamway** has been appointed director of research, succeeding Mr. Lott. **Charles R. Mayer** was named chief administrative engineer.

Armand Brandao has joined the supervisory staff of Wamesit (Mass.) Wool Processing Co. For the past 25 years he has been associated with Noyes-Gebhard of Taunton, Mass.

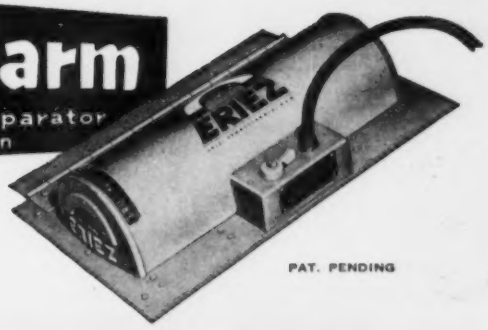
R. C. Whitin has retired as treasurer of Paul Whitin Manufacturing Co., but will continue as a director. He will be succeeded by his son, **Richard C., Jr.,** who has been assistant treasurer. **Michael Grimes** has

The Dramatic Answer for Top Efficiency in Guarding Against Tramp Iron Danger

it's the new

Magnalarm

a magnetic separator with a brain



PAT. PENDING

YOU'LL be delighted with this great new "Magnalarm" line. Here's why:

The new "Magnalarm" line . . . complete in 3 magnetic strengths and 35 standard sizes from 4" to 72" . . . combines a revolutionary automatic alarm system with Eriez permanent magnetic separators . . . developed to tell you *automatically* when separators have accumulated so much tramp iron that their efficiency is lowered below minimum requirements!

How would *you* want to be signaled? By a light on the machine or in a far-off office? By a bell or a buzzer sounding? Or, for ultimate safety, by your machinery shutting off? You can be signaled by any of these optional systems. And, just to make positive the tramp iron *is* removed, the light stays on or the bell keeps sounding or the machinery stays shut off until the magnet face is cleaned!

WHAT BENEFITS "MAGNALARM" BRINGS TO YOU:

1. Assures the greatest possible magnetic efficiency!
2. Affords *maximum* protection against fires, machinery damage and product contamination caused by tramp iron!
3. Saves time . . . unnecessary shut downs for inspections are discontinued!
4. Gives you quality control on the tramp iron to be found in various runs of materials!
5. Plus all the other advantages of Permanent Magnets!

HOW "MAGNALARM" WORKS:

The heart of the "Magnalarm" is the ferrometer . . . a device which measures the accumulation of tramp iron on a magnet. "Magnalarm" opens and closes a circuit to which your special alarm is attached when a pre-set amount of tramp iron is caught. This degree is pre-set at the Eriez factory to meet the normal requirements . . . but it may easily be changed by you at your location if a change is desired.

The only electricity used is that which sets off the electrical device connected with the "Magnalarm". No other electricity is used because the Eriez separator is still a self-contained, non-electric unit which holds its magnetic power indefinitely. The electricity used in the alarm in no way affects the strength and magnetic field of the powerful magnetic material, ALNICO V.

COST AND INSTALLATION

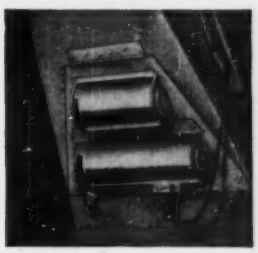
"Magnalarms" are easy to install (simple installation instructions come with each unit) and do not require any maintenance until the signal is given for cleaning. The cost of the "Magnalarm", fully guaranteed by Eriez, is but a fraction more than that of an ordinary old-type magnetic separator!

No one else has "Magnalarm" or anything like it! Count on Eriez to stay in front! Count on Eriez to give you the latest in magnetic equipment.

TYPICAL "MAGNALARM" SITUATIONS:

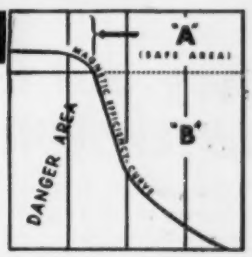
1. A maintenance man who is in charge of cleaning the magnets overlooks a magnetic separator . . . but he is quickly reminded by the "Magnalarm" before it is too late!
2. A magnetic separator in a difficult position or in a remote spot misses inspection and cleaning . . . but with the "Magnalarm" acting as an automatic "baby sitter", no one has to waste time or effort "inspecting" . . . the "Magnalarm" notifies those concerned that cleaning time has come.
3. A batch of raw material, for example, might contain an unusual amount of tramp iron which the Eriez magnetic separator catches . . . but is "off-guard" until the magnet is cleaned. "Magnalarm" tells you when this happens.

An Eriez "Magnalarm" installed on a Gravity Flow Hump signals the presence of tramp iron in this hard-to-get-to, enclosed, food processing line.



Eriez Double Row "Magnalarm" installation assures top efficiency in keeping tramp iron out of this rubber reclaiming line, protecting the sizing screens ahead.

MAGNETIC EFFICIENCY AS GOVERNED BY TRAMP IRON ACCUMULATION



"Magnalarm's" signaling action makes sure you operate only in the strong, safe range marked "A". An ordinary plate magnet's strength will be lowered by tramp iron accumulation to the inefficient operating danger area marked "B" unless plates are checked and cleaned frequently.

WRITE FOR EXCITING, FULL DETAILS

Even though we have developed "Magnalarm" and are naturally in love with it, we think you'll get a thrill too, when reading about the full story of "Magnalarm" in a free brochure which is yours for the asking. Sizes. Magnetic strengths. Types of installation. Construction. Electrical circuits. Type of ferrometer element. Special features. Even how to order. It's all there.

Fill out the easy coupon below. Do it yourself . . . or do it for someone within your organization who will be grateful for the information.

ERIEZ

Eriez Manufacturing Company
72-D Magnet Drive, Erie, Pa.

ERIEZ

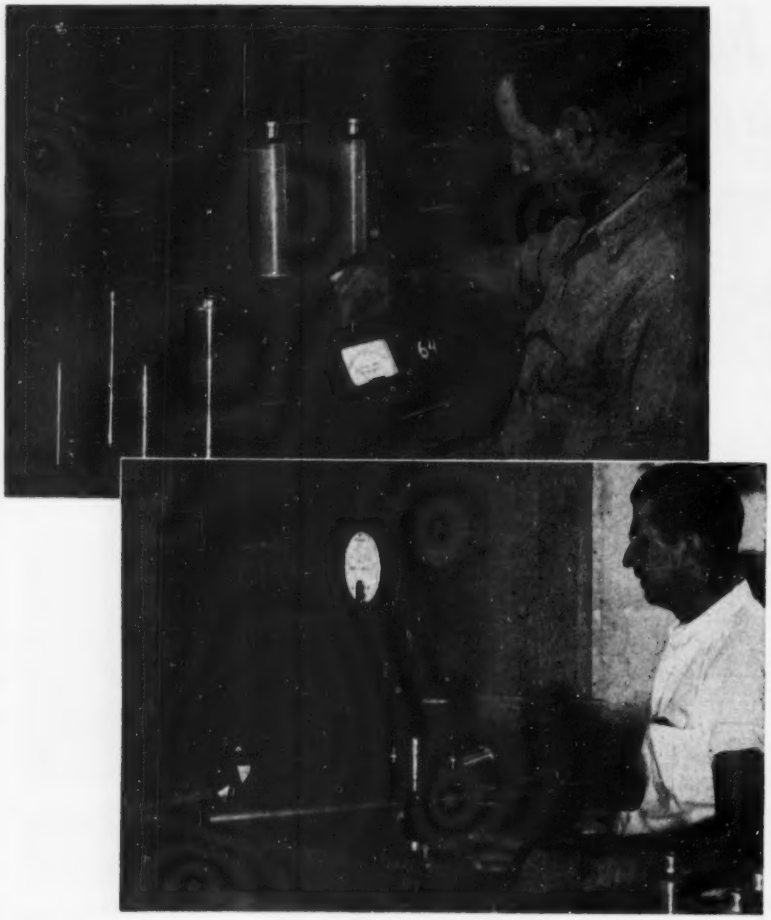
Send me the "MAGNALARM" literature

Name _____

Address _____

City _____ State _____

Company _____ Title _____



They put more RPM into your LESTERSHIRE BOBBINS

It will pay you to investigate the performance of Lestershire Bobbins.

Many mills find that these bobbins substantially increase their production.

Lestershire bobbins run true at today's high speeds because Lestershire technicians, equipped with the most modern equipment, test every bobbin for balance to assure maximum performance.

Lestershire bobbins are made of hard, close-grained maple, vulcanized fibre, laminated phenolic, and aluminum in a variety of combinations for a wide range of uses. Included are twister bobbins, take-up bobbins, headless take-up packages and many others.

Bobbins that do not run true cost you money every day in lost production and in shortened bobbin and spindle life.

The proof of a bobbin is in the running. So write us today to have a representative call and arrange for you to make a test of Lestershire better balanced bobbins in your plant.

NATIONAL VULCANIZED FIBRE CO.
Lestershire Spool Division

140 Baldwin Street — Johnson City, N. Y.

BRANCH OFFICES AND TECHNICAL SERVICES:
National Vulcanized Fibre Co.

New Haven, Conn.
Chicago, Ill.
Baltimore, Md.
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Philadelphia, Pa.
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New York, N. Y.
Rochester, N. Y.
Cincinnati, Ohio
Cleveland, Ohio

Greenville Textile Supply Co.
Greenville, S. C.

Odell Mill Supply Co.
Greensboro, N. C.

National Fibre Co. of Canada, Ltd.
Toronto, Ontario

Personal NOTES ABOUT MEN YOU KNOW

left the firm's branch plant in West Warwick, R. I., to be superintendent of the main plant in Northbridge, Mass.

The new president of the Cotton Institute of Canada is **H. Roy Crabtree,** vice-president and general manager of Woods Manufacturing Co., Ltd., Montreal. Other officers are: first vice-president, **W. J. Whitehead,** Wabasso Cotton Co., Ltd.; second vice-president, **L. C. Bonnycastle,** Canadian Cottons Ltd.; honorary treasurer, **G. B. Gordon,** Dominion Textile Co. Ltd.

Julius W. Abernethy was recently elected president of Mooresville (N. C.) Mills; and **W. W. Rader,** executive vice-president and treasurer; **W. J. Fullerton** was appointed general merchandise and sales manager.

Obituaries

William E. Allen, 85, vice-president of Gaede Dyeing Co., Inc.

Charles Almy, 62, co-founder of Dewey and Almy Chemical Co.

Philip Dana, 79, treasurer of Dana Warp Mills.

Samuel H. Elliott, general manager, Philadelphia textile plant, Delta Finishing Co.

Rodman Hanson, Philadelphia area business representative for TEXTILE INDUSTRIES, at Chestnut Hill Hospital on Feb. 24.

Charles B. Johnson, 77, president of Charles B. Johnson Machine Works.

Joseph Kanner, president, Little Folk Knitwear Corp.

Kenneth A. Leer, 35, part owner of the Kendall Woven Label Co.

Charles H. Moats, 75, an employee of Crystal Springs Bleachery Co. for more than 64 years.

J. C. Paddock, president, J. C. Paddock Co.

W. L. Pitcher, 82, president of United Elastic Corp. and Easthampton Rubber Thread Co.

Eugene Reneau, 44, superintendent of Gastonia Weaving Co.

Bernard Rosenfeldt, 53, assistant superintendent of Burton Knitwear Co.

August C. Schoen, 92, retired founder of Lansdale Silk Hosiery Co.

William C. Ward, 69, vice-president and treasurer of Southern Mercerizing Co.

Jacques Wolf, 80, founder and president of Jacques Wolf & Co.

three good names are better than one!

1. Your good name as a reputable dyer or converter.
2. Our good name as a reputable dyestuff supplier.
3. The good name of the American Institute of Laundering as a reputable research and testing laboratory.

safeguard your good name by using

Superlitefast®

direct dyes

AMERICAN INSTITUTE OF LAUNDERING CERTIFIED COLOR-FAST

the first range of dyes* *certified colorfast*

by the American Institute Of Laundering

for further information, please contact

ALTHOUSE *Chemical Company, Inc.*

*when treated with the polyantherenes or finished with urea of formaldehyde

NEW
TERMACO CONVEYOR SYSTEM
CUSTOM BUILT
from
ECONOMICAL STANDARD PARTS

Conveys Bobbins
WHERE **you want them**
WHEN **you want them**

Eliminates costly manual handling, congestion and delays

SEE **complete working model and actual short conveyor sections** *IN OPERATION*

ATLANTIC CITY SHOW
BOOTHS
277–278

THE **Terrell** MACHINE COMPANY, INC.
CHARLOTTE, N. C.

*Lanolized T/M

INCORPORATED

Announce the Appointment of

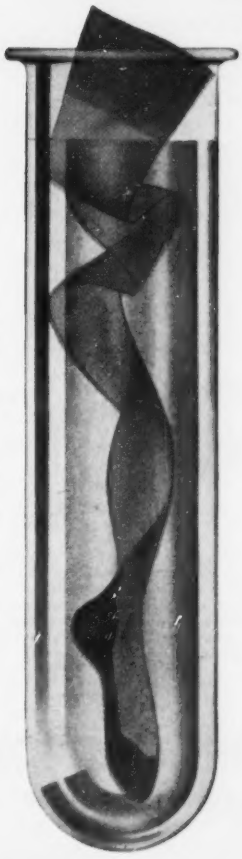
SCHOLLER BROS. INC.

Phila. 34, Pa.

As Manufacturers
and Distributors of . . .

*Lanolized FINISHES

Now Available to Hosiery Manufacturers Properly Licensed and Approved by Lanolized, Inc.



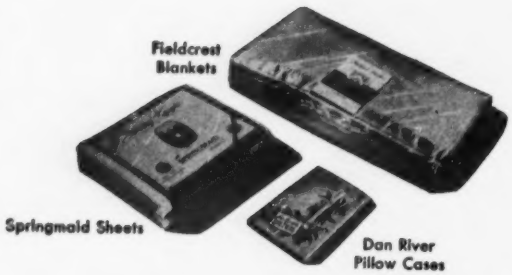
*Lanolize the new lanolin textile finish, is a trade-marked name and insignia, and fully protected by patents pending. LANOLIZE gives to hosiery a thrilling new beauty and comfort . . . a silk-like feel and smoothness—soft . . . snug . . . super-comfortable.

Manufacturers of hosiery, seeking further information on LANOLIZE, should communicate with

LANOLIZED, INC.

350 Fifth Avenue
New York City

*Registration applied for



YOU CAN TELL A HAYSSEN-WRAPPED PACKAGE BY THE WRAPPING IT KEEPS!

easy, automatic operation

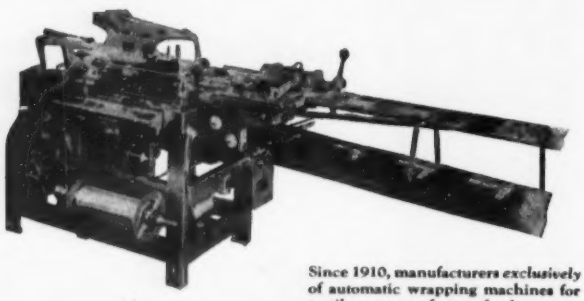
Regardless of size or shape, you get a neat, tight wrap on every package with a Hayssen automatic wrapping machine. *Wrapping's easier!* Also, production men report savings up to 80% over previous wrapping costs.

simple to adjust

No complicated adjustments from size-to-size on a Hayssen. No gears or sprockets to remove or change . . . no need for expensive mechanics to change size, either. So simple the operator does it on the job.

more sturdily built

Hayssen's simple, rugged design, using fewer moving parts, keeps these machines working and saving through years of dependable, trouble-free service. Every moving part is in the open and easily reached for maintenance and cleaning.



Since 1910, manufacturers exclusively of automatic wrapping machines for textiles, paper, frozen foods, meats, vegetables, and many other products. Whatever your product, Hayssen can solve your wrapping problem. WRITE today for more information.

Hayssen MFG. COMPANY

DEPT. TI-4, SHEBOYGAN, WISCONSIN

What the TEXTILE MILLS are doing

Alabama Cotton Manufacturers Association recently announced the winners in the 13th annual Alabama Statewide Textile Safety Contest. Winners in the weaving and spinning division are: Goodyear-Decatur Mills, Decatur; Lakeside Mills, Guntersville; Tallassee Mills, Tallassee. In the spinning division the winners are: Gurney Manufacturing Co., Prattville, Adelaide Mills, Anniston, and Linen Thread Co., Blue Mountain. As a three time winner, Gurney Manufacturing Co. now has permanent possession of the Comer Safety Trophy.

The Philadelphia section of the **American Association of Textile Chemists & Colorists** has announced that its stream pollution committee is cooperating in publication of a Textile Trade Waste Manual. It will be written by the national committee on stream pollution.

The **American & Efird Mills, Inc.,** Mount Holly, N. C., has entered the men's wear and women's wear worsted, as well as blend fabrics fields. The company has been experimenting in this field for some time.

A loom was recently given by **The American Thread Co.,** Sevier, N. C., for the McDowell County Home Demonstration Department.

Apponaug (R. I.) Co. has moved its New York office from 40 Worth St. to 58 West 40th St.

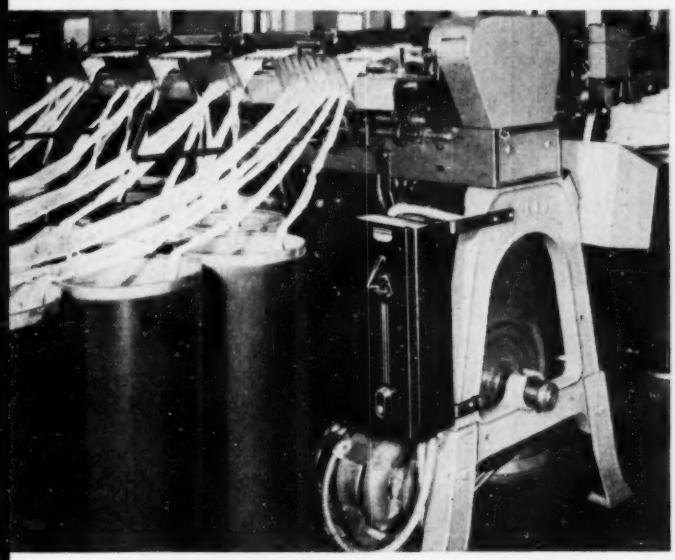
The selling organizations of **Aspinook Corp.** and **U. S. Finishing Co.,** recently merged, have been consolidated at 261 Fifth Ave., New York City.

Belknap Mills Corp., which took over certain assets of Sulloway Hosiery Mills, Franklin, N. H., sometime ago, has changed its name to **Belknap-Sulloway Mills Corp.**

Dan River Mills has announced an improvement program which will involve an outlay of $2,500,000 for textile machinery. Machinery valued at nearly $1,500,000 has already been purchased, and another million will be spent during the current year. The

CUTLER-HAMMER

MOTOR CONTROL FOR THE TEXTILE INDUSTRY



for Statesville

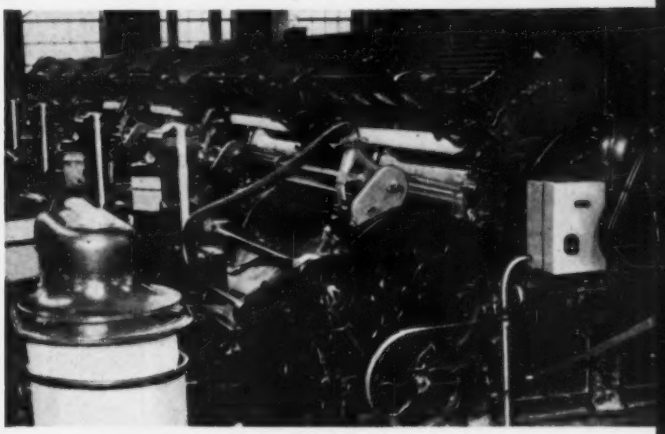
Cutler-Hammer Combination Starters on drawing frames. STATESVILLE DIVISION, The Seminole Mills, Statesville, N. C.

What this name means

To the men who have had experience with various makes of motor control under the trying conditions and exacting requirements of textile manufacturing, the name Cutler-Hammer means utmost dependability. They have found this dependability far more than a mere competitive claim. They have found it a fact that can stand out in a mill's production records to reflect favorably on their own ability and good judgment in replacing other makes with Cutler-Hammer Motor Control. And they know from experience that Cutler-Hammer dependability is not an occasional happenstance . . . that it is the earned advantage of the longest and most intensive specialization in motor control engineering. They also know Cutler-Hammer can furnish any type of control required, from the simplest starter to the most complex of electronic equipment.

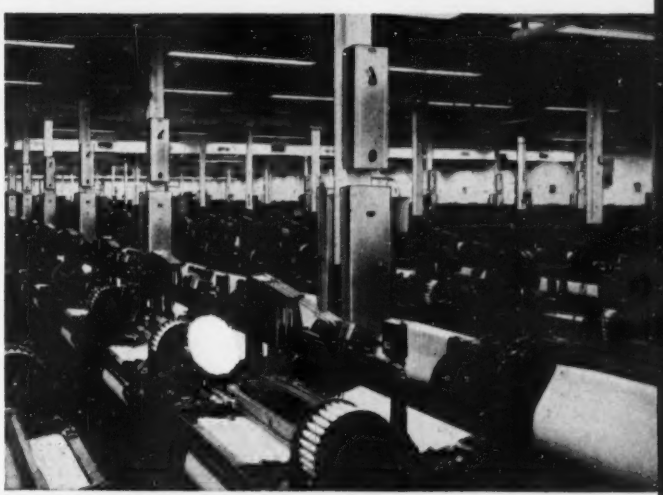
You too will find it pays to insist on Cutler-Hammer Motor Control and refuse all substitutes. An adequate network of Authorized Cutler-Hammer Distributors throughout the textile manufacturing areas insures prompt attention and supply. CUTLER-HAMMER, Inc., 1456 St. Paul Ave., Milwaukee 1, Wisconsin.

CUTLER-HAMMER
MOTOR CONTROL
C-H



for Charles H. Bacon Company

Cutler-Hammer Card Controllers on cards in mill of Charles H. Bacon Company, Lenoir City, Tennessee.



for Springs Cotton Mills

at Kershaw, S. C., plant. Cutler-Hammer Loom Switches for each group of 10 looms are here mounted in single enclosures on adjacent building columns above mill traffic. Note also single combination starter installed ahead of each group.

NEW CUTLER-HAMMER LOOM SWITCH

with NEMA 1A Lint-Tight Gasketed Enclosure

Pushbutton operation —an achievement for this type of starter. Stop button can be padlocked.

Stronger, smaller, drawn steel case. Unique welded-steel mounting pedestal available to create a *complete* assembly with unparalleled resistance to mechanical shock.

New NEMA 1A lint-tight gasketed enclosure prevents entrance of lint and dust.

Service proven, positive make, quick break operating mechanism built on *steel* framework.

"Out in the open" contacts for quicker inspection and easy renewal *on the job*. Most dependable overload protection—famous Cutler-Hammer eutectic element type—prevents unnecessary shutdowns without sacrifice of *positive* motor protection.

Vibration resistant. Mechanism "floats" in truly effective *live rubber* mounting bushings.

VISIT OUR BOOTHS 427-428, ATLANTIC CITY EXHIBITION

PATTERNS ARE UNLIMITED

ON A FIDELITY MULTI-DESIGN RIBBER

120 VERTICAL COLORS—5 HORIZONTAL COLORS

The Fidelity Multi-Design Ribber makes possible a wide range of plating designs and color combinations in True Ribbed Fabric—diameters up to seven inches.

Fidelity Machines are available in 10-step and 25-step types. For more information, write today for detailed literature on the Fidelity Multi-Design Ribbers.

When you are in the Philadelphia area, visit the new showroom at our plant—see The Multi-Design Ribber in operation.

Designers and Builders of Intricate, Automatic Precision Machines

FIDELITY MACHINE COMPANY, INC.

SINCE 1911

3908-18 FRANKFORD AVENUE, PHILADELPHIA 24, PA.

What the TEXTILE MILLS are doing

company is converting all of its 3-inch and 3¼-inch gauge spinning frames to a super draft system, which is expected to greatly cut back the cost of this operation.

The New York office of **Cranston (R. I.) Print Works** has been moved from 40 Worth St. to 261 Madison Ave.

The #6 mill of **Flagg Utica Corp.**, containing approximately 600,000 sq ft floor space, has been sold.

Goodyear Tire & Rubber Co.'s Worldwide Safety Contest for 1952 resulted in top honors going to the firm's textile mills at Decatur, Ala.

Employees there worked 1,203,316 man-hours without a lost-time accident last year. W. S. Hunter, Decatur mills personnel manager, center, and C. W. Young, mills superintendent, right, are shown receiving the trophy from Fred W. Climer, vice-president in charge of industrial relations.

Greenville Mills' branch plant at East Rochester, N. H., has plans for installation of 100 additional looms. It now operates 196 looms on filament rayons.

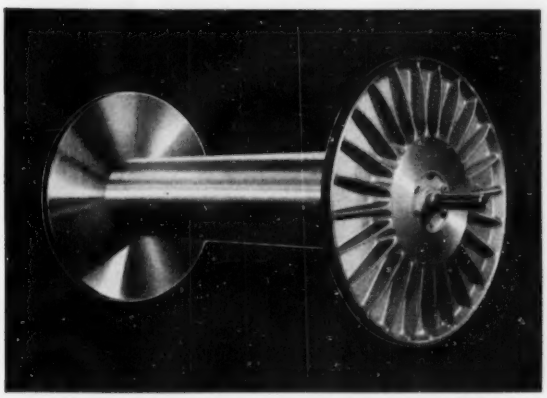
P. H. Hanes Knitting Co., Winston-Salem, N. C., has contributed $25,000 to Old Salem, Inc., for restoration, heating, and furnishing of the boys' school now used as the Wachovia Museum.

Machinery and equipment of **Lorraine Manufacturing Co.**, Pawtucket, R. I., was sold at public auction recently.

Machinery and equipment of the knitting plant of **Julian S. Merigold,**

How much stress, strain, pull and squeeze should a good nylon section beam withstand?

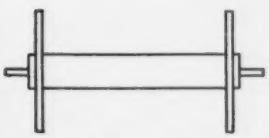
When a section beam is filled with yarn, especially nylon yarn, it stretches in length, is squeezed in diameter, and the heads bulge out. In some instances, the pressure exerted on a fully loaded beam head reaches over 34 tons, crushing stress may go as high as 23,000 P.S.I., and the distance between the heads may grow by as much as one-eighth of an inch.



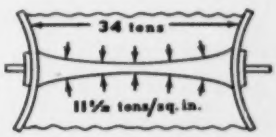
This Hayes Aluminum Nylon Beam withstood a load of 263,000 pounds in a test made by the Engineering Department of Swarthmore College. It is available in 30" and 32" head diameters and is adaptable for use with all current makes of warpers.

The purpose of beam design is to keep distortion caused by these pressures to a minimum, thus preventing yarn breakage. At present, few, if any, engineering and production men in textile plants have adequate information on how big a load of yarn a beam will take while still maintaining an adequate safety factor at the critical stress points. Many beams are purchased and installed with a guess and a prayer that they will hold up under operating conditions.

As textile manufacturing plants make the transition from cotton and wool yarn to nylon and acetate rayon, the importance of good information increases. For, while these yarns do offer the opportunity for better weaves, and better selvages, they are also increasing the stress and strain on the section beam.



When a perfectly harmless warp beam is filled with nylon yarn



It gets stretched squeezed and bulged

Hayes Industries, Inc. of Jackson, Michigan have been conducting strain-gauge tests for their light-metal beams for six years. All this beam-stress data is now being made available to industry men. Furthermore, Hayes salesmen are available to help explain the data to interested engineers and production foremen. They can help you decide the exact beams required for your operation — to give you the best trouble-free production at the lowest cost.

HAYES INDUSTRIES, INC.,
Jackson, Michigan

Dear Sir:

☐ Please send me all available beam-stress data you have.

☐ I would appreciate having a salesman call to go over the data with me.

Name .....

Title .....

Company .....

Address .....

City ..... State .....

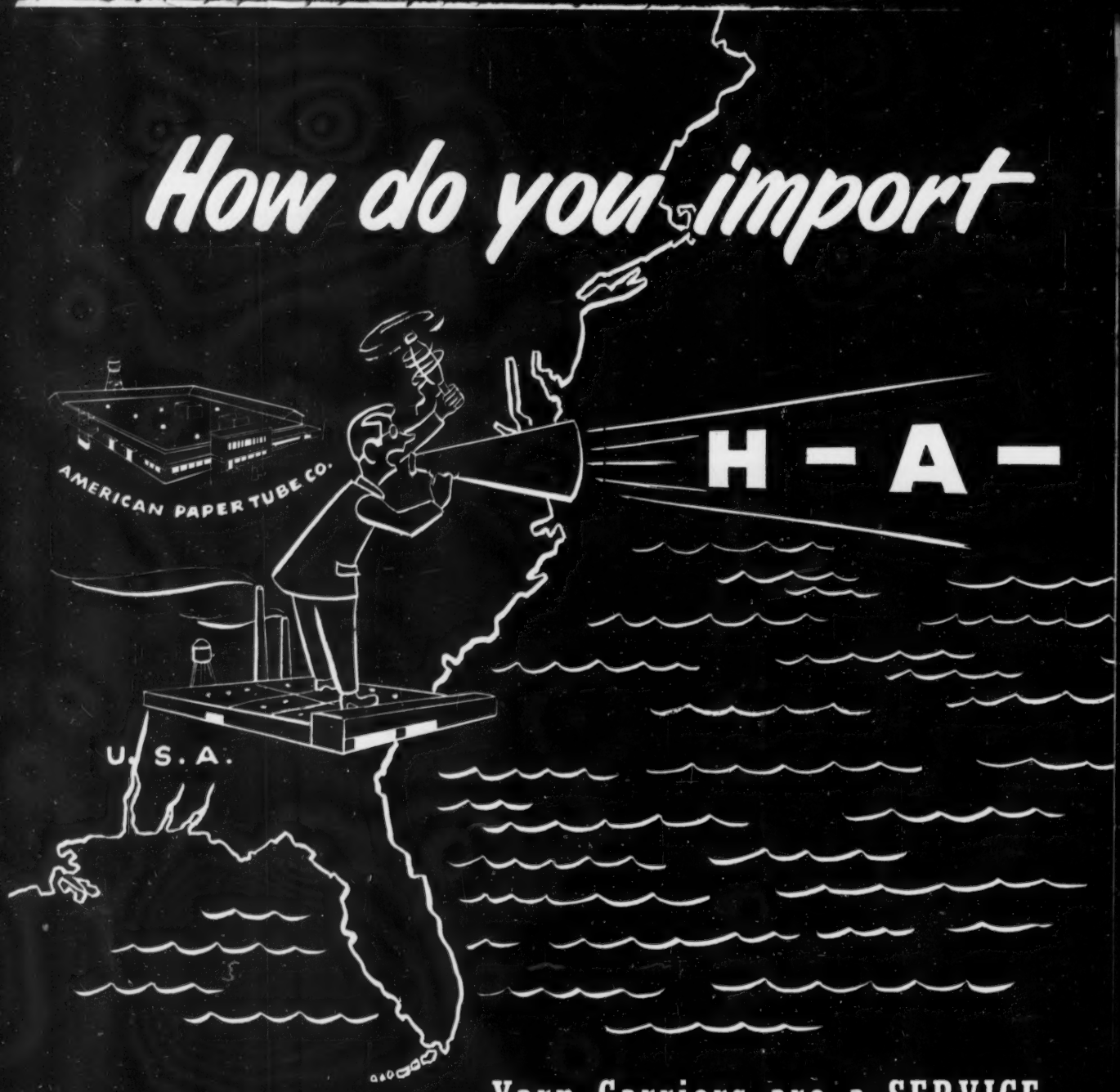
See us at Booths 361 & 361AA.

HAY·ES INDUSTRIES, INC.
JACKSON, MICHIGAN

THE WORLD'S LARGEST PRODUCER OF LIGHT METAL BEAMS

Southern Representative: R.E.L. Holt, Jr. & Assoc., Greensboro, N. C. | Eastern Representative: J. Paul Laird, Philadelphia, Pa. | New England Representative: J. S. Fallow & Co., New Bedford, Mass. | Canadian Representative: J. S. Fallow & Co., Montreal

How do you import



Yarn Carriers are a SERVICE

Imported yarn carriers made by cheap labor are available at an enticing price.

But your bobbins have to carry your product in your mill every day — and the true cost of a bobbin is the cost of using it.

Any way you figure, bobbins are only a tiny fraction of total mill costs, yet a tremendous influence on the cost of operation.

SERVICE?

L – P!

A.P.T. lives with the bobbins in your plant to assure full efficiency of their performance throughout their life.

Don't settle for less. Get the Responsibility for efficient, economical carrier service assured by A.P.T.

Why settle for "half a bobbin"?
Get SERVICE, too! Get A.P.T.

American Paper Tube Co.

ESTABLISHED 1898

WOONSOCKET, R. I. GREENVILLE, S. C. PORT GIBSON, MISS.

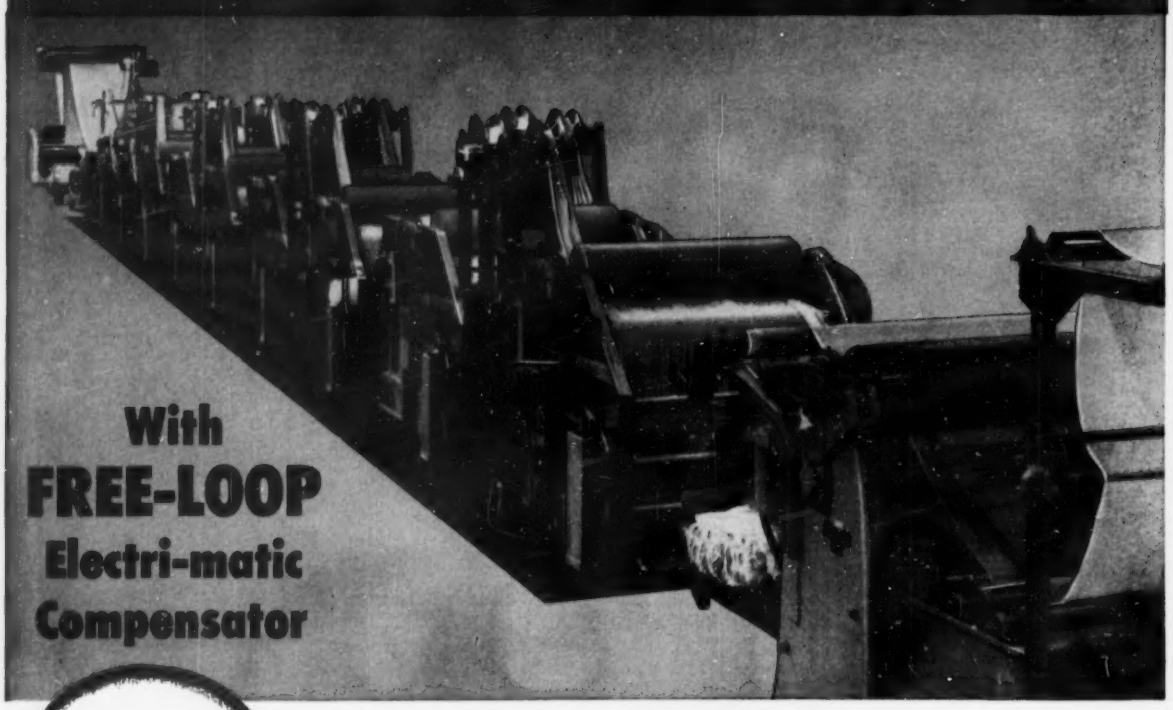
CANADIAN REPRESENTATIVE,
HUGH WILLIAMS & CO., TORONTO, CANADA

56 YEARS OF RESPONSIBILITY FOR EFFICIENT AND ECONOMICAL CARRIER SERVICE

The Fleet Line

LAXLOOP CONTINUOUS WASHER

PAT. APPLIED FOR



With FREE-LOOP Electri-matic Compensator

FREE-LOOP Electri-matic Compensator, Bar Type — When two loops of cloth complete a low energy electrical circuit by coming in contact with two metal bars, corresponding tubs are synchronized.

FEATURES

A flexible vari-speed machine — stainless steel throughout.

Continuous washing and/or neutralizing of woolens, worsteds or blends at variable speeds.

Fully synchronized from tub to tub, giving tensionless fabrics throughout machine.

FREE-LOOP Electri-matic Compensator (patent applied for) controls DC drive for full automatic control.

Pneumatically operated rubber squeeze rolls.

Safety knock-offs prevent accidents to operators and materials.

Incorporates every device for automatic control of all elements involved in operation.

Positive counter-current flow, with constant uniform pre-determined liquor level in each tub. Made possible by R&L stainless steel flooded suction low head pump and adjustable weirs.

ADVANTAGES

Efficient high speed washing for all types of fabrics.

Uniformity piece to piece and set to set.

Extremely versatile, readily accessible, easy to maintain.

Considerable savings in labor, economy in water consumption and cloth handling.

See This Machine in Operation!
Booths 232 — 243, A. T. M. EXHIBITION, Atlantic City
April 26th — 30th

RIGGS AND LOMBARD INC.

FOOT OF SUFFOLK STREET, LOWELL, MASS.

Agents: Paul A. Merriam Co., 1491 Broad St., Prov., R. I. • Charles H. Dunker, 1236 So. Maple Ave., Los Angeles 15, Calif.
Albert R. Breen, 80 E. Jackson Blvd., Chicago 4, Ill. • F. W. Warrington Co., 611 Johnston Bldg., Charlotte, N. C.
Harold A. Zayotti, Jr., P. O. Box 125, Riverton, N. J. • H. A. Mott Co. Limited, Brantford, Ontario, Canada

A WIDE VARIETY OF PRODUCTS *from* A WIDE VARIETY OF MATERIALS

REINFORCEMENTS
INSULATION
CLOTHING INTERLINING
UPHOLSTERY BACKING
FILTERS

SYNTHETICS -NATURAL FIBERS	SPECIAL MATERIALS	COARSE FIBERS
Acetate	Asbestos	Jute
Rayon	Rock Wool	Hair
Nylon	Glass	Sisal
Cotton		Reclaim Tire Cord
Wool		

Many new and unusual products are being developed

Because of the unique way the Rando-Feeder and Rando-Webber economically form a *Random Web* from almost any type of waste or staple fiber, many new products are now being developed . . . products unheard of a few years ago. Imagine making a web from hair, glass, asbestos or cocoanut fibers! All of these materials cannot be handled successfully on any other equipment.

Non-oriented webs have no crosswise, vertical or horizontal pattern . . . have strength in all directions . . . are resilient . . . will resist delamination and splitting. Webs made by Rando-Feeder and Rando-Webber can be dry processed, needle punched, quilted, felted and heat sealed.

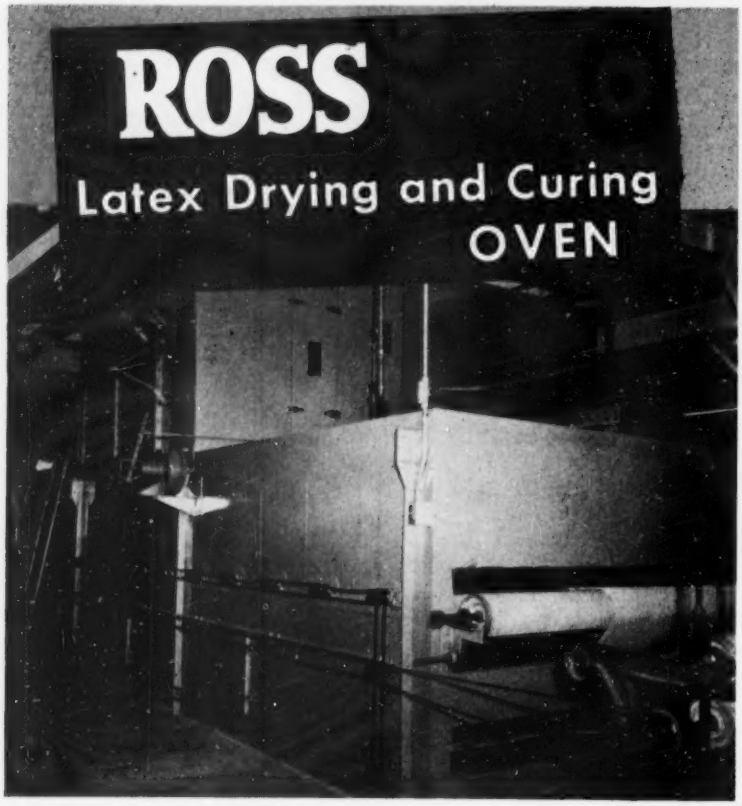
Send us samples of your fibers. We will make webs for test purposes. Write for details.

RANDO-FEEDERS and RANDO-WEBBERS
AVAILABLE IN 3 SIZES
New you can make Random Webs 40", 60" or 84" wide . . . up to 2" thick.

SEE OUR EXHIBIT AT ATLANTIC CITY APRIL 26 - 30 BOOTH 812-813

TEXTILE DIVISION
CURLATOR
CORPORATION
EAST ROCHESTER, NEW YORK

For TOP SPEED and PERFORMANCE



faster drying of latex backing on cotton rugs

Recently installed at the Tifton Rug Co., East Point, Georgia, the ROSS 3-pass, gas fired oven shown above uses the new ROSS "cross air nozzles" to achieve speeds in excess of 20 FPM. Major features of the ROSS Latex Drying and Curing Oven are:

1. Available for 9' 12' and 15' rugs.
2. New cross air nozzle for easier and uniform drying.
3. Available for gas, oil or steam.
4. Prefabricated at factory for minimum erection time.
5. Large savings in fuel and maintenance.

ROSS Ovens, embodying 33 years of experience in Textile Drying and Finishing are available for the Rug Industry for Latex Drying and Curing as well as drying of the wet rug.

J. O. ROSS ENGINEERING CORPORATION

NEW YORK 22—444 Madison Ave.
ATLANTA—3182 Peachtree Rd., N.E.
BOSTON 9—79 Milk Street
CHICAGO 6—201 N. Wells Street
DETROIT 4—9225 Grand River Ave.
LOS ANGELES 17—480 St. Paul Ave.
SEATTLE 1—823 Skinner Bldg.

Look for the NEW ROSS "HOT AIR SLASHER"
Write us for information on this New Principle of Air Drying.

What the TEXTILE MILLS are doing

Inc., Wilkinsville, Mass., recently was sold at public auction.

High Rock Mills, Philmont, N. Y., a subsidiary of Susquehanna Mills, Inc., have been sold to **Bernhard Altmann Co.** Harold A. Fahr, vice-president and general manager of Altmann, will be in charge of the mills.

Lockport (N. Y.) Cotton Batting Co. has changed its name to Lockport Mills, Inc.

Recently sold at public auction was **New England Print & Dye Works,** Assonet, Mass.

The Nolde & Horst Co., Reading, Pa., which has discontinued its production of women's hosiery, is planning to expand its men's sock operations. The Reading finishing plant will continue in operation, processing goods of several other women's stocking manufacturers as well as its own line of men's hose.

Machinery and equipment of the **Normandie Mill,** Nashua, N. H., has been sold at public auction.

Palmetto Fabrics, Inc., recently organized, has begun operations at York, S. C. Initial production will be 16,000 pounds of knit cloth a week, on one shift.

Pemberton Knitwear, Inc., newly organized, will operate a mill for manufacture of outerwear. The firm is represented by Lester H. Prensky, 8 West 40th St., New York City.

A new one-story mill is under construction at Roxboro, N. C., by **Person Mills.** It will be 100 x 125 ft.

Phillips-Jones Corp., 417 Fifth Ave., New York City, has installed a bleaching department in a new one-story addition to the plant at Patton, Pa.

Podrat Brothers Textile Co., recently chartered, is represented by Edmund Wexler, 38 Pearl St., Providence, R. I.

Rochambeau Worsted Mills, Providence, R. I., have under construction a building in Ellsworth, Me., for a new worsted spinning mill.

Crystal Hosiery Mills, Inc., Denton, N. C., has been purchased by **Russell-**

SWEEPING ADVANCE MADE BY NEW

FULLERGRIPT BLADE SWEEP

Comparable to a Broom in Price but with 5 Times the Wear

You can use Blade Sweeps in pairs for sweeping open areas, as shown above, or singly for close work, as shown at right. For further information about the NEW Fullergript Blade Sweep call the Fuller Industrial Representative listed in the classified section of your telephone directory or write . . .

Consider these money-saving features! A Fullergript Blade Sweep lasts 5 times as long as an ordinary broom. You use it the way it was made to be used . . . with the brush filaments perpendicular to the floor. You "plow" without breaking off the filaments or bending them out of shape. Furthermore, the densely packed brush material—palmyra, in this case, but you have a choice of fillers—is loop-anchored inside a rigid, metal channel and *cannot* come out.

You replace *only* the part that wears down — *not* the whole tool. So when the sweeping surface has worn down, just slip a new Fullergript brush strip into the clamp and you're back in business. A Fullergript strip compares favorably in price with the cost of a new broom . . . *but lasts 5 times as long.* Where can you use to best advantage the money you formerly had tied up in brooms?

Close-up of clamping device showing how brush strip may be set off-center and/or angled.

Be sure to see our display at Booths 704-705.

TEXTILE MACHINERY AMERICAN ASSOCIATION EXHIBITION

Fuller BRUSH CO.

INDUSTRIAL DIVISION 3659 MAIN STREET • HARTFORD 2, CONN.

Power driven brushes, Factory & Institutional cleaning tools, Waxes & Detergents

The SMM ROLLER-BEARING SPINDLE

Flexibility without the least friction; therefore, no dirtying of oil
SMM Universal Joint
Exclusive oil cushioning. Very gentle and very effective

For Higher
EFFICIENCY
and Greater
ECONOMY

20,000 Hours and more with same oilfilling.

•

No edge pressure on the rollers. No chafing corrosion.

•

Amazingly smooth running results in less thread breakages, in a more uniform quality of thread . . . permits higher speeds and increased traverse.

•

Minimum Maintenance

•

Minimum power consumption.

•

•

Built for any kind of bobbin. For twisting, spinning and throwing. For light and heavy duty.

•

TEXTILE MACHINERY AMERICAN EXHIBITION ASSOCIATION ATLANTIC CITY APRIL 28 - 30 1954

Booth No. 1024

Spindles, Motors and Machines Ltd.

Uster, Switzerland

NORTH AMERICAN REPRESENTATIVE
GUBELIN INTERNATIONAL CORPORATION
35 West 53rd Street • New York 19, N. Y.

Southern Representative: **H. Phil Worth, Box 1555, Greenville, S. C.**

What the TEXTILE MILLS *are doing*

Harvelle Hosiery Mills, Mount Gilead, N. C., and is being operated as a branch mill under the name of Snappy Sox, Inc.

Philadelphia Textile Institute has announced the availability of two new scholarships: The Berthold Strauss Scholarship from the Moss Rose Manufacturing Co., Philadelphia, Pa., and the Leon Birnbaum

Gustave Gerstle and Leon Birnbaum of Native Laces & Textiles, are shown here presenting a scholarship check to Bertrand W. Hayward (right) Director of P.T.I.

Scholarship from Native Laces & Textiles, Inc. They were made to honor the respective heads of the companies on the celebration of the fiftieth anniversary with the organization.

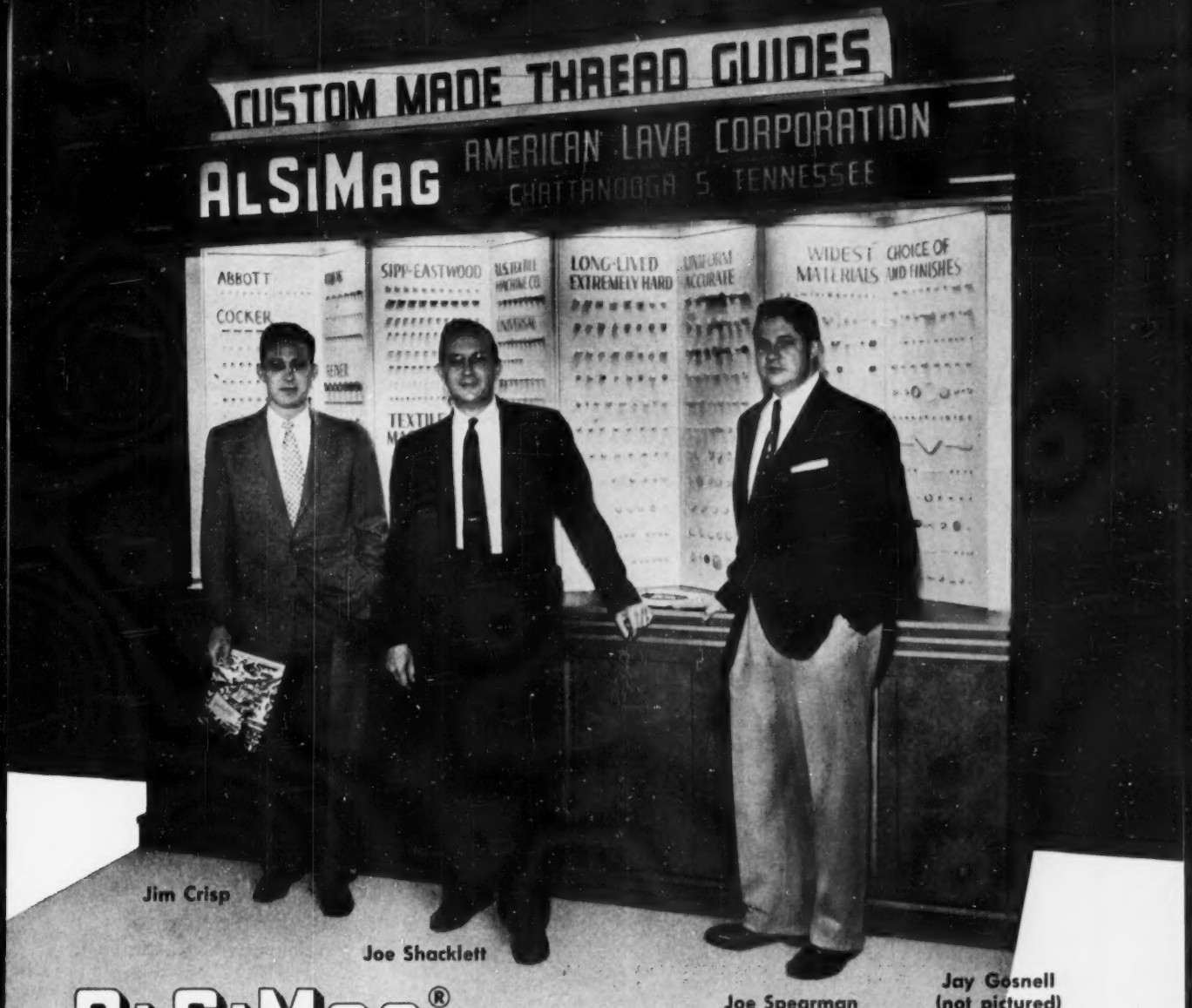
Piedmont Fiber Mills, Inc., Anderson, S. C., has been organized to manufacture and process textile fiber products. John M. Vogler is president.

Starr Mills Corp., recently chartered, has arranged with Starr Industrial Buildings, Inc., Anderson, S. C., for construction of a one-story building to be occupied under lease.

Ski-Land Woolen Mill, Clinton, Me., has a new two-story extension to its plant.

Strutwear, Inc., Clarksdale, Miss., is planning construction of an addition to the mill for increased production.

A half interest in **Somerset Knitting Mills** was recently acquired by Gideon A. Frankil, president of **Crown Prince Knitting Mills** and an officer of Union Knitting Mills. Mr. Frankil became president of Somer-



Jim Crisp

Joe Shacklett

Joe Spearman

Jay Gosnell (not pictured)

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- GUIDES FOR PARTICULAR TEXTILE MACHINES
- GUIDES FOR EVERY PURPOSE AND PROBLEM

BOOTH NO. 21
AMERICAN TEXTILE MACHINERY EXHIBITION
Atlantic City Auditorium, Atlantic City, N.J.
APRIL 26—APRIL 30, 1954

TEXTILE MACHINERY EXHIBITION — AMERICAN ASSOCIATION — ATLANTIC CITY APRIL 26-30 1954

53RD YEAR OF CERAMIC LEADERSHIP

AMERICAN LAVA CORPORATION

A Subsidiary of Minnesota Mining and Manufacturing Company

CHATTANOOGA 5, TENNESSEE

SALES ENGINEERS: NORTH AND EAST: Jay S. Gosnell, 671 Broad St., Newark, N. J., Mitchell 2-8159. SOUTHEAST: Joe E. Spearman, American Lava Corporation, Chattanooga 5, Tenn., 5-3411. ALL OTHER AREAS: J. R. Shacklett, American Lava Corporation, Chattanooga 5, Tennessee, 5-3411. CANADIAN REPRESENTATIVE: Ian M. Haldane and Company, Post Office Box 54, London, Ontario, Canada. CONTINENTAL EUROPEAN REPRESENTATIVE: P. C. Huguenin Luzern, Gerbergasse 6, Luzern, Switzerland

the helping hand to better weaving

G&K
Check Straps
give you checks
that don't bounce!

Flexing back and forth twice a second — hour after hour — these straps *cushion* the picker stick . . . help bring the shuttle to a *smooth* stop without shock or kick-back.

That's because G&K Orange® Line Straight and Curved Check Straps are made of Hairitan® Leather — famed for its tough fibre structure, its *live* resiliency — and its ability to perform uniformly for years.

FREE CATALOG: Shows the great Orange Line of Textile Leathers for weaving — also Aprons and Tapes.

GRATON & KNIGHT COMPANY
Worcester, Massachusetts
DIXIE LEATHER CORPORATION
Albany, Georgia

GRATON AND KNIGHT® Orange® Line
Estab. 1851 T-3
TEXTILE LEATHERS

What the TEXTILE MILLS are doing

set, and announced an expansion program. He stated that the Somerset branch name would be continued.

Leonard B. Foster is president and treasurer of the newly formed **Summit Finishing Co.**, 237 East Aurora St., Waterbury, Conn.

Julian T. Hightower, president of **Thomaston (Ga.) Mills, Inc.**, has announced plans for a second large addition to the plant, which will add 30,000 sq ft more floor space.

Triple Quality Hosiery Co., Hickory, N. C., has been chartered for operation of a knitting mill. William A. Foster is principal incorporator.

United Elastic Corp., Easthampton, Mass., has under construction a plant for its raschel knitting division near Stuart, Va. An addition to the Stuart division is also being built.

The **United States Finishing Co.** has purchased land in Norwich, Conn., near its mill, and plans construction of an addition for warehouse service. Its Hartsville, S. C., mill is known now as the Hartsville division of U. S. Finishing Co.

United States Rubber Co. has announced that a textile laboratory will be established at a new research center to be constructed at Preakness, N. J. It will consist of three main laboratory structures with several smaller buildings, power plant, and other units. These will replace the present laboratories at Passaic, N. J.

Weartex Rug Co. has leased property at 830 Castro St., San Leandro, Cal., for production of cotton and fiber rugs.

The **J. Weber Manufacturing Corp.**, 2 East 54th St., New York, N. Y., has been formed to weave and sell quality industrial and decorative glass fabrics, according to Jacque Weber, president of Bloomsburg Mills, Inc., Dallas, Pa.

A one-story mill is under construction by **Whitley Fabric Co.** at Bessemer City, N. C.

Woonsocket (R. I.) Spinning Co. was recently purchased by a New York group headed by Theodore Birnbaum and Alexander Craven.

PULLINGRIP

G&K
Leather Belting
wraps the pulleys
for more
production-power

It Grips — Leather's resilient, frictional surface grips the pulley face, causing belt and pulley to move as one power unit.

It Pulls — Like a python, leather belting is strong, flexible, with controlled stretch — *wraps* the pulleys and gives peak performance on *any* drive.

It's 3-Dimensional — Leather's millions of fibres are interlaced in all directions to form the tough *three-dimensional* structure so necessary for PULLINGRIP — *developed to the highest degree in G&K Leather Belting.*

Call your G&K Industrial Supplies Distributor for flat, round, link and V-belting, belt lacing, dressings, cements, packings and specialty leathers . . . made by Graton & Knight, the world's largest manufacturer of industrial leather products.

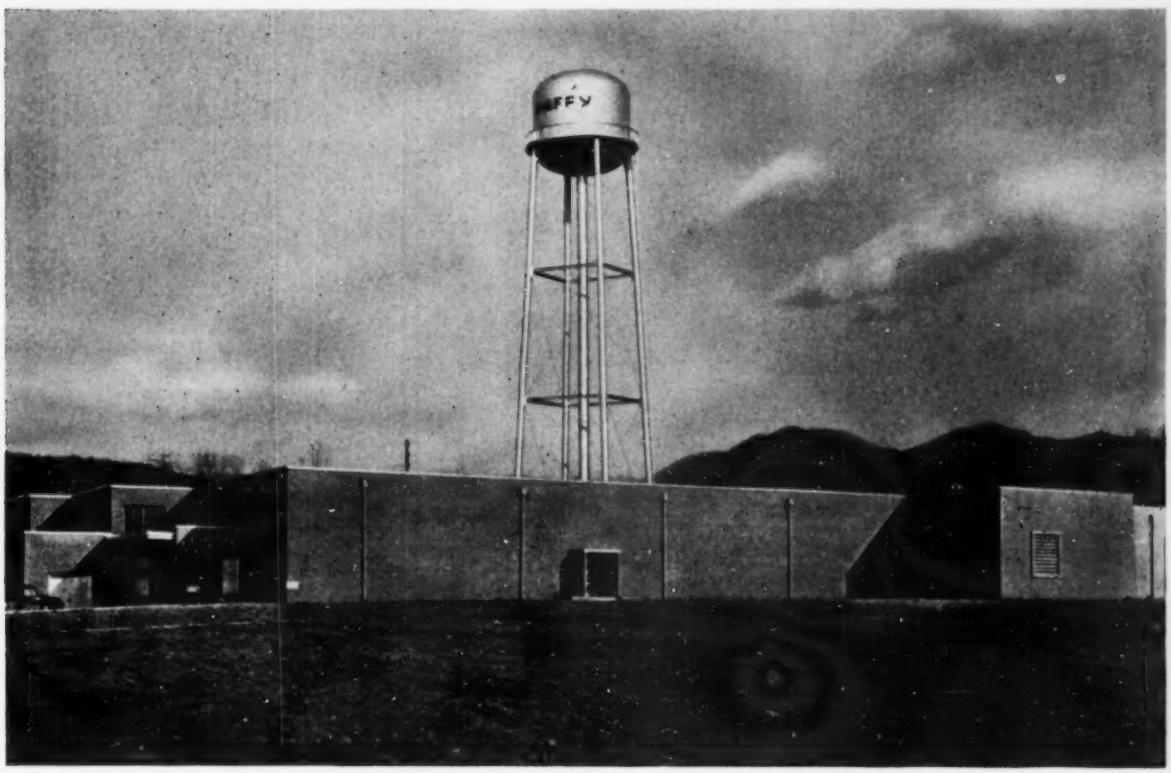
Catalog 101 shows RESEARCH®, HEART OAK and SPARTAN® Leather Belting — also special belting for Stripper, Spindle and Universal Winders. It's free.

GRATON & KNIGHT
Company
WORCESTER, MASSACHUSETTS

Engineered GRATON AND KNIGHT®
B-8 Estab. 1851
LEATHER BELTING

New air conditioned mill keeps this throwster "tops" in quality

Here's another case where a satisfied Carrier customer, building a new mill, asked his architects and constructors to incorporate air conditioning in the design. The entire mill was planned from the start to take advantage of made-to-order indoor "climate" as a production tool. ▪ Duffy Silk Company had been using Carrier air conditioning since 1932 to assure high-quality throwing in their Buffalo, New York, plant. So they asked Carrier to air condition the new Duffy nylon throwing mill at Murphy, North Carolina, which had to meet today's heightened demands for quality and uniformity. That called for maintaining a year-round temperature of 80° in the twisting, sizing and coning areas, at the proper relative humidity for each operation—a job for modern



air conditioning with refrigeration. Three Carrier air conditioning systems are doing the job. A Carrier Centrifugal Refrigerating Machine supplies chilled water to all systems. ▪ You'll find that uniform climate in your mill increases efficiency of men, machines and materials. And the way to get uniform weather inside any mill, in any season, is to install modern Carrier air conditioning with refrigeration. Or add Carrier refrigeration to your present evaporative cooling system. ▪ For a copy of the informative booklet, "Air Conditioning for the Textile Industry," call your nearest Carrier office. Or write to Carrier Corporation, Syracuse, New York.

Carrier

air conditioning
refrigeration
industrial heating

Architects: Biberstein, Bowles & Meacham, Inc., Charlotte, N. C.
Constructors: C. M. Guest & Sons, Greensboro, N. C., and Anderson, S. C.

"AMERICAN"

means

TOP QUALITY & PERFORMANCE

in

BOBBINS

See them performing on leading Textile Manufacturers equipment at Atlantic City, April 26 to May 1.

There is more to a bobbin than a good piece of wood. "American" Bobbins are built up to Quality and not down to Price. The proof is in performance, not in claims. Try them.

REPRESENTATIVES IN ALL TERRITORIES

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SUPPLIERS News

WHAT THEY ARE DOING

Samuel A. Cooper, formerly with M. Salzberg & Sons, is now manager of the synthetic fiber technical service department, National Aniline Division, **Allied Chemical & Dye Corp.**

The Boston District office of **Alvey Conveyor Manufacturing Co.** has been moved to 750 Washington St., Dedham, Mass. Alfred J. Barchi,

Mr. Barchi

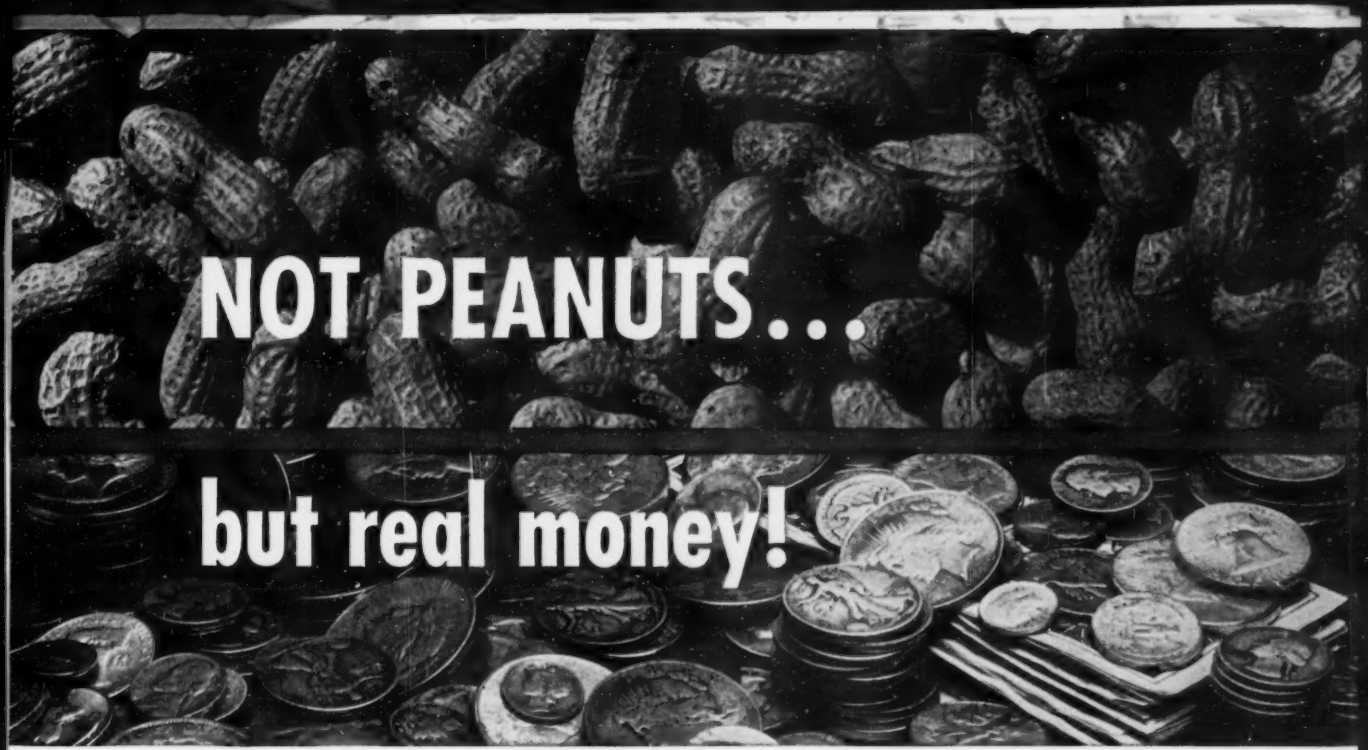
formerly with Scott Paper Co., has been appointed sales engineer of the firm's Philadelphia sales office.

Bancroft W. Henderson is the new director of sales for **American Cyanamid Co.'s** organic chemicals division. He was previously manager of intermediate and rubber chemicals department of the Calco Chemical division.

Atkinson, Haserick & Co. has opened a service branch in Greenville, S. C., under the direction of Percy W. Ellis who has been con-

Mr. Ellis

nected with the Boston office. To provide faster service to all mills operating Holdsworth gill reducers or Platt cotton machinery, the firm's



THAT'S WHAT YOU SAVE WHEN YOU Simplify AND Save THE PURE OIL WAY!

6-WAY SAVINGS!

1. Reduced inventory
2. Non-mysterious simplified lubrication
3. Labor cost reduced
4. Simplified inventory control
5. Errors in application reduced
6. Simplified, speeded-up purchasing

Be *sure* with Pure— Sales offices located in more than 500 cities in Pure's marketing area.

Hundreds of plants already are saving real money by reducing their inventory from dozens of different oils and greases to *a few Pure Oil multi-purpose lubricants*—lubricants scientifically formulated to do many different jobs equally well.

Investigate the savings possible in your own plant with this *simplified* lubrication program. Pure Oil industrial specialists will be glad to help you set up a money-saving, labor-saving procedure tailored to your particular plant needs.

Our booklet, "Simplify and Save" will give you facts and information leading to proper lubrication plus extra savings.

It Starts Here!

PURE OIL INDUSTRIAL LUBRICANTS

FREE BOOKLET

The Pure Oil Company, Industrial Sales Dept. T-44
35 E. Wacker Drive, Chicago 1, Illinois
Please send me your free booklet on how to "Simplify and Save"

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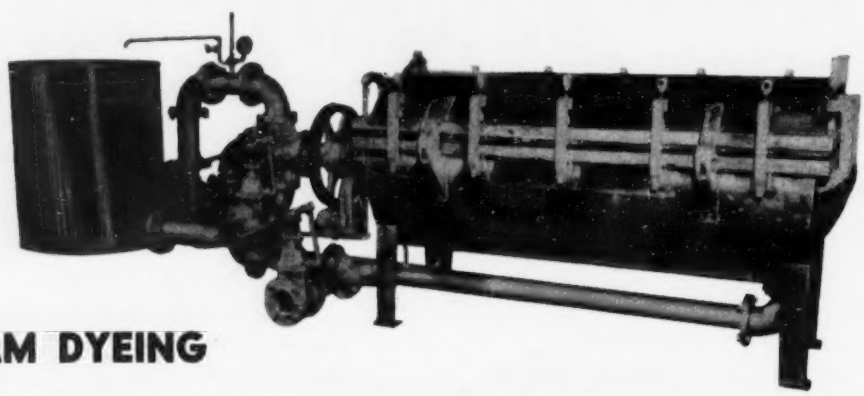
CITY_____ ZONE_____ STATE_____



6 BEAM

MULTIPLE BEAM DYEING

Morton System Dyeing Machinery is based on engineering design of proven simplicity and assures you of high work loads at minimum operational costs.

With The Morton System, your dyeing machines can keep pace with new fiber developments and keep pace with your competitors. Don't let obsolete machinery cut your profit margin.

THE MORTON SYSTEM HORIZONTAL BEAM DYEING MACHINE, shown above, may be arranged in multiples of six machines or less. Six beams may be dyed using a common dye bath or six individual beams may be dyed all using an individual dye bath. No dummy beams are required. Each machine is self contained and may be sealed off from the other machines and run as an individual unit.

This machine can be installed in Slasher room adjoining slashers to minimize handling of beams. Beams may have fixed shafts, thereby eliminating time required for installation of shafts at slashers and warper. Entire installation is on one floor, saving expensive installation costs.

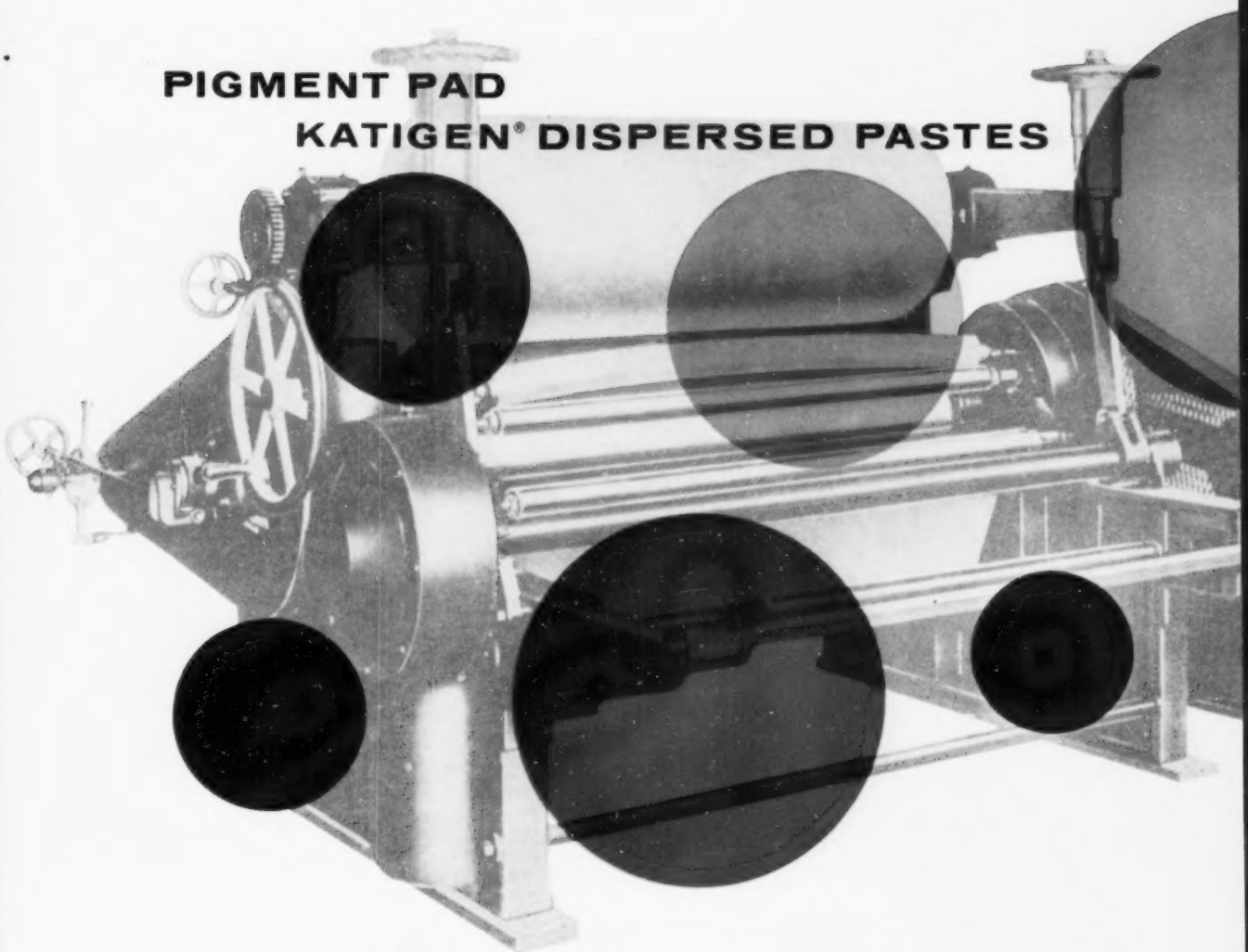
Your Morton Engineer will be glad to give you complete details upon request.

MORTON MACHINE WORKS

COLUMBUS, GEORGIA

be modern...

PIGMENT PAD
KATIGEN® DISPERSED PASTES



Our new Katigen dispersed pastes now permit results not formerly obtainable with sulfur colors in any other physical form. Their use brings to sulfur dyeing all the advantages the pigment padding method of application has for vat dyestuffs.

Among these advantages are—

Complete elimination of exhaust in padding. Easier application and control of dyestuff. Better penetration of tightly woven fabrics. Less side to center shading—better selvages. Better wet fastness and crock fastness.

Application on rayon fabrics may be done by the Genray Process.

Our representatives are prepared to offer complete technical information on the use of this important new group of sulfur dyes.

From Research to Reality

gdc gaf

GENERAL DYESTUFF CORPORATION

A SALES DIVISION OF GENERAL ANILINE & FILM CORPORATION

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VISIT MORRISON MACHINE CO.
EXHIBIT BOOTH NOS. 433-448

As you enter Convention Hall for the American Textile Machinery Exhibition, one of the finest and largest exhibitions will be the MORRISON MACHINE CO'S latest and most complete line of DYEING, BLEACHING and FINISHING EQUIPMENT

MAY WE CORDIALLY DIRECT YOUR ATTENTION TO THE FOLLOWING:

1—Latest Complete "Rubber Belt Type Compressive Shrinking Machine".

2—The Hi-Pressure, Stainless Steel Steam Dry Cans driven individually by Continuous "V-Belt" arrangement.

3—GENRAY installation especially designed for "Short Runs".

4—The Williams Continuous Fibre Processing Machine.

5—Stainless Steel High Speed "Tight Strand Washer".

6—Tenter Frame with "Novel Type Clip Easing Arrangement".

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TEXTILE DYEING, FINISHING AND COMPRESSIVE SHRINKING MACHINERY

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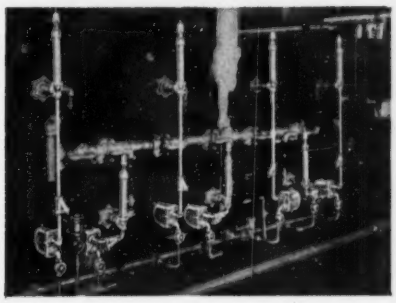
Misused steam plays havoc with production schedules and costs



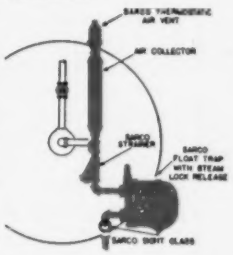
Drying speed increased 10% with proper steam trapping

Toscony Fabrics, Inc., Pawtucket, R. I., had a drying problem with a slasher. Warps wouldn't dry evenly due to temperature variations across the cylinders, caused by ineffective discharge of condensate and air.

The problem was solved by installing a Sarco Draining and Air Venting System on each of the seven cylinders.

Now there is immediate and continuous removal of condensate, air and incondensable gases. A special steam-lock release on the Sarco Float-Thermostatic trap prevents waterlogging of cylinders.

Result: Viscose yarn drying speed increased 10% with even drying across the entire width of the machine.



Simple, efficient, cost-cutting trapping system requires virtually no maintenance —
The Sarco Draining and Air Venting System is a factory-assembled unit. It consists of a thermostatic air vent with air collector pipe, a strainer, special steam trap with steam-lock release, and a sight glass.

Use Steam Right

1. **To prevent production delays**
2. **To improve product quality**
3. **To maintain desired output**
4. **To reduce labor and steam costs**

IN YOUR processing operations, are you up against troubles such as slow-ups, uneven or inadequate heating, poor temperature control—resulting in reduced output, lowered product quality and increased costs?

You may suspect that your equipment is at fault. But process heating headaches often are due to ineffective utilization of steam. The wrong type trap can cause condensate to waterlog equipment. Improper air-venting can reduce the rate of heat transfer by as much as 11%. Manual temperature control may prove erratic, affect product quality, increase production costs.

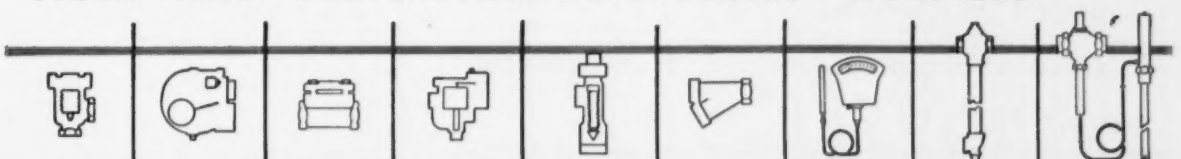
If your plant is suffering from any of these production handicaps, Sarco can help you. Sarco has a wealth of practical experience in the process industries to put to work for you. Plant after plant, with Sarco help, has licked these problems through simple, inexpensive changes. The results have been: increased output, improved product quality uniformly maintained, lower production costs.

Engineering Service: Our engineering service is yours for the asking. Call our local representative, or, write today for case histories describing how other plants in your field have solved similar problems through the proper application of steam traps and inexpensive temperature controls. Sarco Company, Inc., Empire State Bldg., New York 1, N. Y.

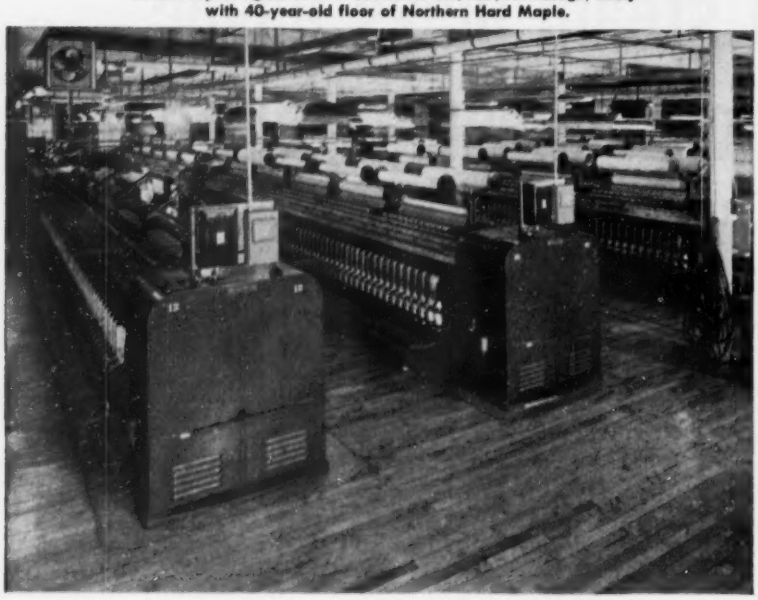
SARCO

improves product quality and output

STEAM TRAPS • TEMPERATURE CONTROLLERS • STRAINERS



Modern spinning room of S. Stroock & Co., Inc., Newburgh, N.Y., with 40-year-old floor of Northern Hard Maple.



a thoroughly excellent floor–
40 years ago, *and* today!

It's foot-friendly! NORTHERN HARD MAPLE

The splendid, ultra-modern spinning frames and equipment in the sparkling-clean Stroock Mill, where some of the world's finest woolens are produced, are quite "at home" on the fine, old floor of Northern Hard Maple. For there's nothing more modern than maple—*or more thoroughly time-proved.* Generations of textile folk know the genial, warm comfort of *resilient* maple floors—their ease of cleaning—their smoothness and freedom from slivers—their easy refinishing ("always a new floor underneath," you know). When remodeling, repairing, modernizing your mills—and these are "modernizing days"—trust **MFMA**-marked Northern Hard Maple to maintain the quality that has served you so long and faithfully. In block, strip and pattern designs. See Sweet's (Arch. 12k-MA) or write for data, Finish Folder and NEW Approved List of finishing products.

the finest floor that grows

MAPLE FLOORING MANUFACTURERS ASSOCIATION
Suite 591, Pure Oil Building, 35 E. Wacker Drive • Chicago 1, Illinois

FLOOR WITH NORTHERN HARD MAPLE
BEECH AND BIRCH

SUPPLIERS News
WHAT THEY ARE DOING

gilling faller shop and card clothing shop have been transferred from Pawtucket, R. I., to 1639 W. Morehead St., Charlotte, N. C.

Previously director of the engineering experiment station at Georgia Institute of Technology, Dr. Herschel H. Cudd has accepted the newly created position of manager of research and development at **American Viscose Corp.**

Howard G. Eggison has been named Philadelphia area sales engineer and general field representative for **American Water Softener Co.** The firm has announced the appointment of American Water Softener Sales Co. as exclusive representatives in metropolitan New York and northern New Jersey.

Graton & Knight Co. has appointed Tom Cook sales representative in the

Mr. Cook

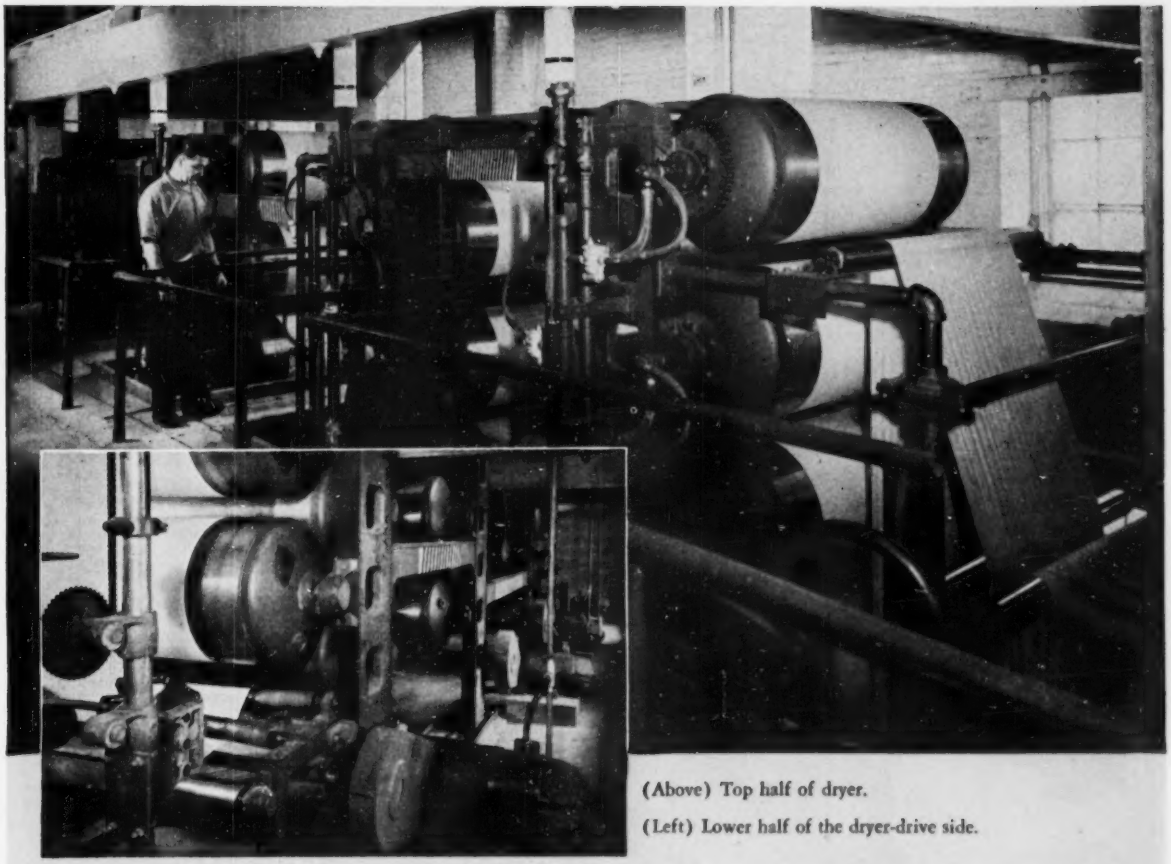
Texas-Oklahoma area. He succeeds his father, Harold Cook, who was with the firm for 38 years.

Steel building products manufactured by the Great Lakes Steel Corp. will henceforth be distributed in parts of Georgia, Alabama, Tennessee, and South Carolina by **Atlantic Steel Co.** John T. Butler, assistant manager of the warehouse division, will head the new activity.

New president of **Atlas Mineral Products Co.** is Dr. Raymond B. Seymour. Dr. Seymour joined the firm as chief chemist in 1939.

Berks Needle Straightening Co. has been appointed exclusive representative in the U. S. A. for **Haase and Kuhn Needle Co. of Germany.**

Brush Electronics Co. has opened the Brush Southeastern Textile In-



(Above) Top half of dryer.

(Left) Lower half of the dryer-drive side.

This 40-can Dryer Operates at 250 ypm and features

SMOOTHER CYLINDERS

The new seam-welding technique employed at the Butterworth plant produces smoother cylinders than ever before. New precision machinery for both coded and uncoded cylinders is now in use. Modern equipment and increased production capacity mean better machinery and deliveries on schedule.

When you specify Butterworth, you get drying equipment that is engineered to meet your specific requirements and conditions . . . such as weight of cloth, moisture content, and dryness desired. Furthermore, you get a specially engineered installation at a competitive price.

Take your choice of copper or stainless steel cylinders . . . vertical or horizontal arrangement . . . fabricated or cast-iron columns . . . gear or sprocket-and-chain drive.

And whether you need a small battery of cylinders or a complete drying installation — let us send a Butterworth engineer to your mill with facts and figures on new Butterworth Dryers.

H. W. BUTTERWORTH & SONS CO.
Bethayres, Pennsylvania

1211 Johnston Building, Charlotte, North Carolina
187 Westminster Street, Providence, Rhode Island

Machines for Bleaching, Boiling-Out, Dyeing, Mercerizing, Finishing & Embossing : : Pot Spinning Machines for Synthetic Fibers : : Calender Rolls : : Tenter Chains

BUTTERWORTH

TEXTILE MACHINERY EXHIBITION — AMERICAN ASSOCIATION — ATLANTIC CITY APRIL 26-30 1954

THE NEW SARGENT

WET and DRY PICKER

SINGLE PROCESS

ANY FIBRE . . . ANY BLEND

OPENS • PICKS • BLENDS

AUTOMATIC FEEDER — Model N. Continuous, automatic feeds for scouring machines, openers, pickers, squeeze rolls, pit-type and rotary feeds; burr pickers, bin-storage feeds, etc. Write for Bulletin No. 174.

Flexible adjustment of opening action permits gentlest handling of synthetics. Used extensively by producers of synthetic staple for picking before or after drying and before carding. Also highly popular in absorbent cotton industry for opening bleached fibres before drying.

This thoroughly versatile modern production aid is proving invaluable to mills running a variety of fibres and blends — in providing thorough action with maximum protection to fibres. Built in widths 18 to 72 inches, or to your specifications.

Production 600 to 2000 pounds per hour.

SINCE 1852

C. G. SARGENT'S SONS CORP.

GRANITEVILLE, MASSACHUSETTS, U.S.A.

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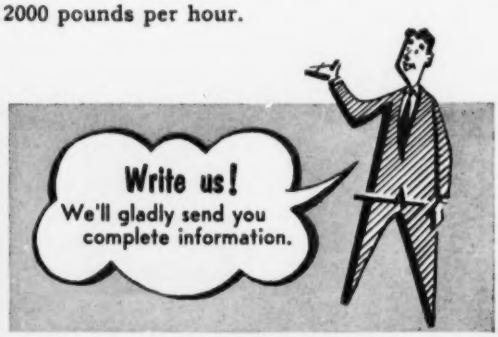
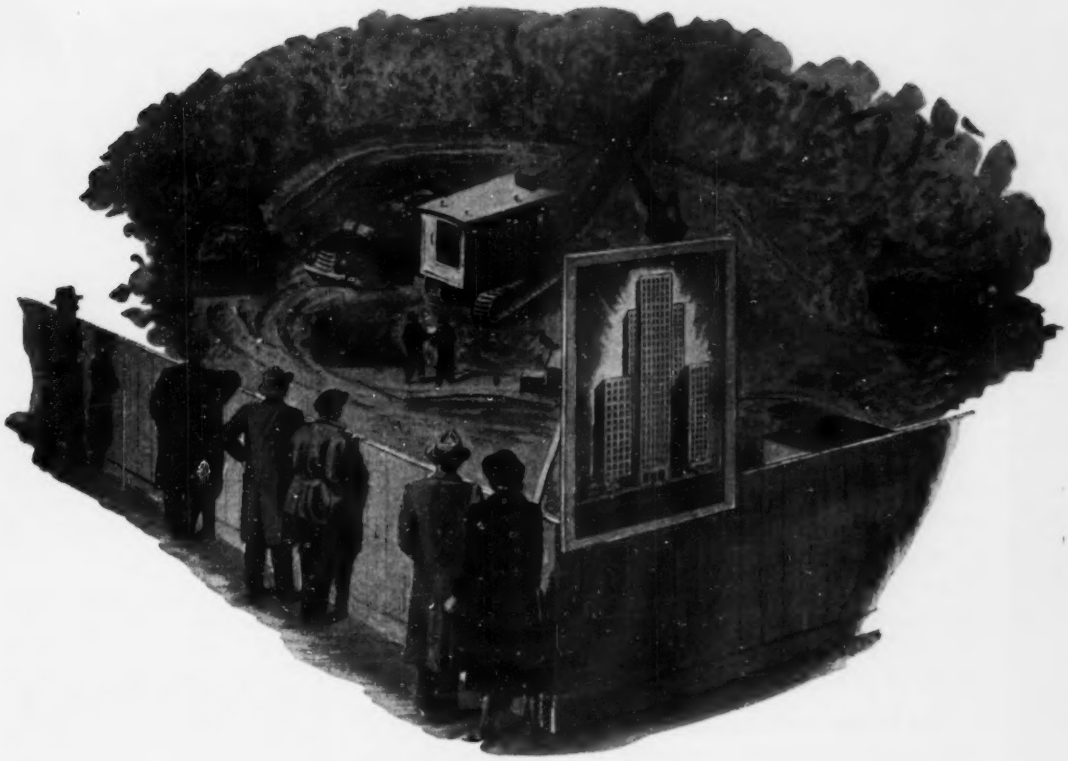
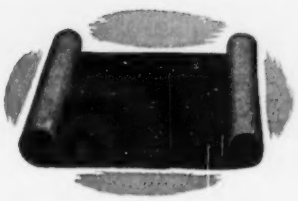
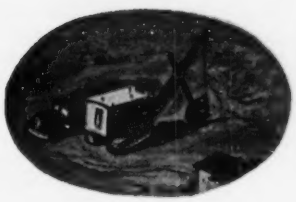








Foundation for a Fine Finish

UNLIKE MOST THINGS, a building must go deep down before it can go up!

... and the reason is, of course, that it's upon the *foundation* that the safety of the building's fine "finish" depends... a foundation planned for in advance... one designed to do the job *best*.

And this same "factor of safety" can be applied, with profit, in other ways. In your bleaching and dyeing operations, as an example, we know of no better way to plan for a fine finish than to use a de-sizing agent designed to do *that* job best: *Diastafor*.

For Diastafor de-sizing agent *works*, no matter what *your* working conditions—whether with various lots, with variations in water or sizing formulas—whether with cottons, rayons or mixed goods. What's more, you will find it works in an unusually wide range of temperatures and pH, a range sure to satisfy your every de-sizing need.

For finishing with ease, speed and economy in either the continuous or batch process—try all-purpose Diastafor! It's available in three types, L, L_2 or D. Remember: this is the product that has been building its fine reputation for more than 44 years!

For further information, feel free to write us... we're here to serve you. Standard Brands Incorporated, *Diastafor Department*, 595 Madison Avenue, New York 22, N. Y.

DIASTAFOR

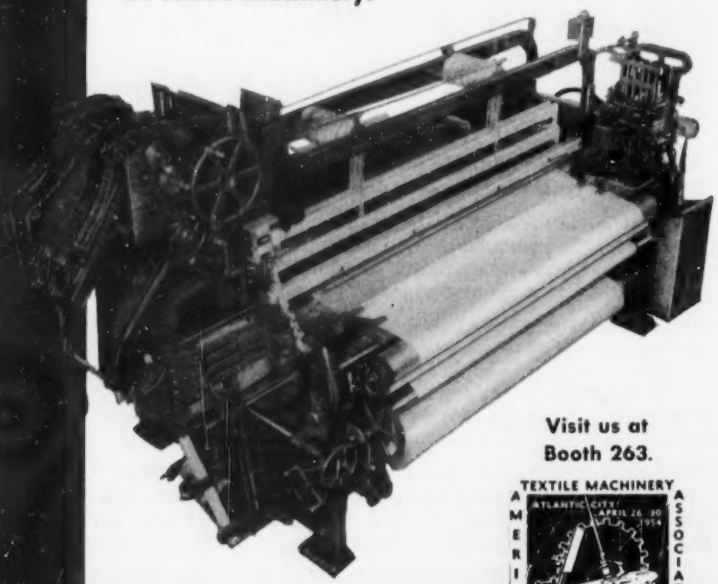
A TRADE MARK OF STANDARD BRANDS INCORPORATED

Protect your Investment with BIJUR

The Crompton & Knowles W-3 Loom, for weaving woolens, worsted and blended fabrics, with Bijur Automatic Lubrication *reduces labor and maintenance costs . . . minimizes fabric spoilage . . . protects your investment.*

The Bijur System lubricates 34 bearings with the *correctly proportioned* amount of oil while the loom is operating. Bijur guards the bearings in the inaccessible areas and protects them against failure from neglect.

For longer machine life, low maintenance and increased production, specify Bijur lubrication on all new mill equipment you buy. A Bijur engineer can solve your lubricating problems on all textile machinery.



N-6

Visit us at Booth 263.

TEXTILE MACHINERY AMERICAN ASSOCIATION ATLANTIC CITY APRIL 26-30 1954 EXHIBITION

281

BIJUR LUBRICATING CORPORATION

Rochelle Park • New Jersey

SUPPLIERS News
WHAT THEY ARE DOING

strument Sales and Service Office at 91 Cleveland St., Greenville, S. C. It is under the direction of D. M. Gaskill, formerly affiliated with Warner & Swasey Co.

Vice-president M. Nielson has been elected a member of the board of directors of **The Babcock & Wilcox Co.** and placed in charge of the firm's boiler division.

Buffalo Electro-Chemical Co., Inc., has appointed Vernon E. Moore California sales representative, with headquarters in Los Angeles. His territory includes California, Nevada, and Arizona.

Carrier Corp. has opened new southeastern headquarters in a recently completed building at 2015 Peachtree Road, Atlanta, Ga. On hand for the formal opening were Cloud Wampler, president of the firm, and a number of other officials from the home office in Syracuse, N. Y. In commenting on the increase in air-conditioning sales in the South, Mr. Wampler mentioned that in 1906 Carrier began its work in the textile field, and the installation of air conditioning in the southern textile plants led to a "veritable revolution" in this industry.

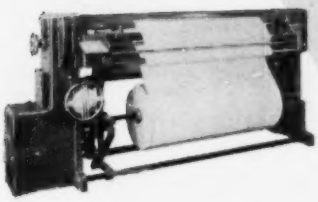
Thomas R. Hazel has been named supervisor of the tractor equipment engineering division of **Hyster Co.** Jack Wright has been made district manager in the northwestern district; James N. Rector has moved to Atlanta, Ga., as manager of the southeastern district, and Robert Hile has

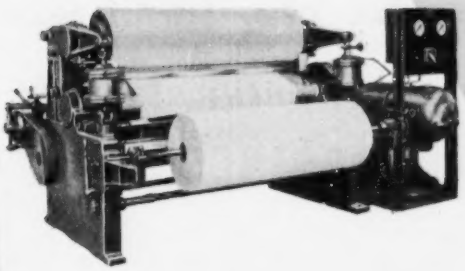
Mr. Wright **Mr. Rector**

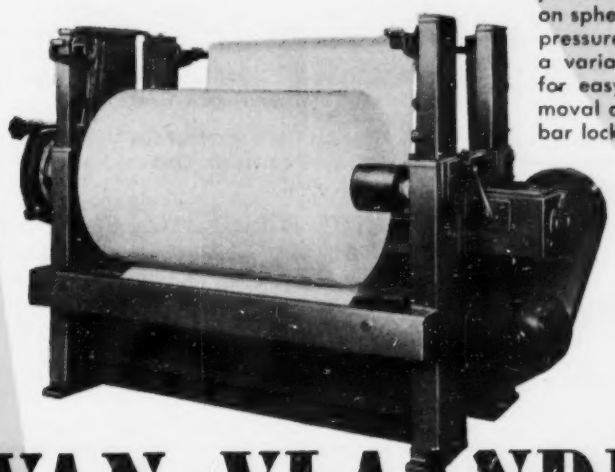
been named general manager of the firm's retail store in Chicago. The company has also announced the appointment of Bode-Finn Co., with sales and service facilities in Cincinnati and Dayton, O., as dealers in Hyster industrial truck equipment.

(Continued on page 267)

IN THE LIMELIGHT







Yes, Van Vlaanderen processing equipment is certain to be in the limelight this month at the American Textile Machinery Exhibition.* Van Vlaanderen will present three brand-new machines in their big eight-booth display of advanced design dyeing and finishing equipment. These stars of the show will soon take their place beside other topnotch performers of the V.V. line in up-to-date plants throughout the country. Alert plant managers know that these machines deliver longer trouble-free service, better production and higher quality work.

THE DYEMASTER. This versatile new jig will handle any fabric from tender sheers to ducks. Cloth tension remains as preset end after end. Near-constant cloth speed is assured by a special differential transmission. The Dyemaster features automatic reversing 15" brakes, power loading and unloading, totally enclosed transmission and chains and a cushioned oscillating expander.

V.V. COMBINATION FRICTION AND ROLLING CALENDER. This advanced unit gives up to 40 tons pressure as a friction calender and 80 tons as a rolling calender. The degree of friction is variable and special controls allow operator to determine friction accurately. The 16" chrome-plated, chilled-iron top roll is gas-heated and equipped with automatic temperature control. Center roll is 22" cotton and bottom 20" chilled iron. Face is 65". The speeds of top roll and lower pair of rolls are controlled separately by D.C. variable speed units. A special device prevents cotton roll from "running wild". Other features are: herringbone reduction gears in main drive to carry large loads safely, 11½" rams and massive box-type frames.

V.V. EMBOSSING MACHINE. This new 20 ton pneumatic set embosser is designed and constructed for long trouble-free service and high production. The 11" diameter engraved roll is gas-heated and has a 50" face. Temperature is automatically controlled. Special herringbone timing gears of ample size assure perfect register of embossing rolls. Rolls are mounted on spherical roller bearings, the upper lubricated by a pressure cooling and filtering unit. The machine has a variable-speed drive and closely grouped controls for easy operation. Other features include easy removal of rolls, a nip guard and exclusive V.V. center-bar locks.

Van Vlaanderen will be glad to arrange for you to see any of these machines in action. Call on us.

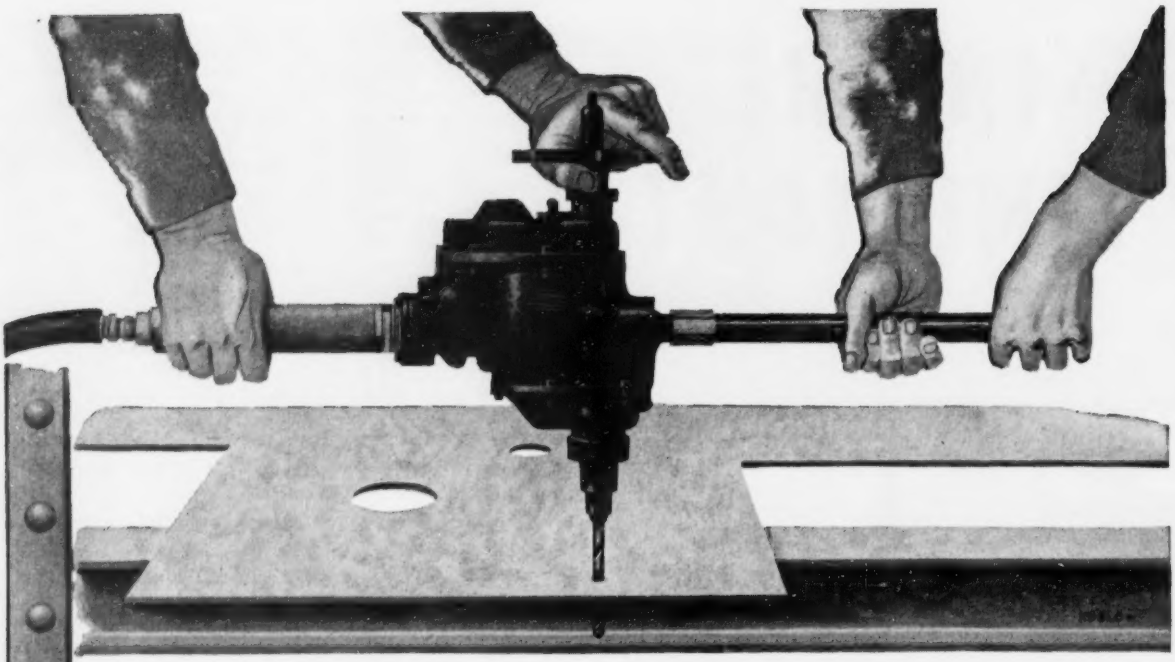
Illustrated at left are the V.V. Tuber, V.V. Heavy Duty Padder and the Dyemaster Jig.

VAN VLAANDEREN MACHINE COMPANY

370 Straight Street, • Paterson 3, New Jersey

In the South — Parrott and Ballentine • 610 South Carolina National Bank Building • Greenville, South Carolina

WORLD'S LARGEST MANUFACTURER OF MACHINES FOR PROCESSING MODERN FABRICS



Need high capacity, long service life, small size?

here's how leading manufacturers of pneumatic tools get them with NEEDLE BEARINGS

Torrington Needle Bearings are used in many leading brands of pneumatic tools because of their ability to take heavy loading, their compactness, and their long life.

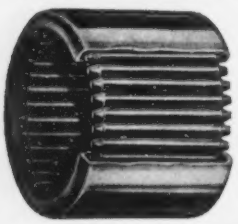
In wrenches, nut runners, drills, rivet hammers, impact and many other types of air-driven tools, the Needle Bearing's ability to boost power output and torque, while saving weight and space, has been proved again and again.

On spindles, idler gears, planetary gears and angle attachments, Needle Bearings enable tool designers to keep tools compact and light. They cost little more than plain bearings, yet they give high-capacity performance over long periods with minimum maintenance.

Throughout industry, Torrington Needle Bearings have become "standard equipment" since their introduction nearly twenty years ago. When space is limited and high capacity is a "must," specify Needle Bearings.

Why not learn whether the Needle Bearing can benefit your products. Our engineers will be glad to assist you.

THE TORRINGTON COMPANY
Torrington, Conn. • South Bend 21, Ind.



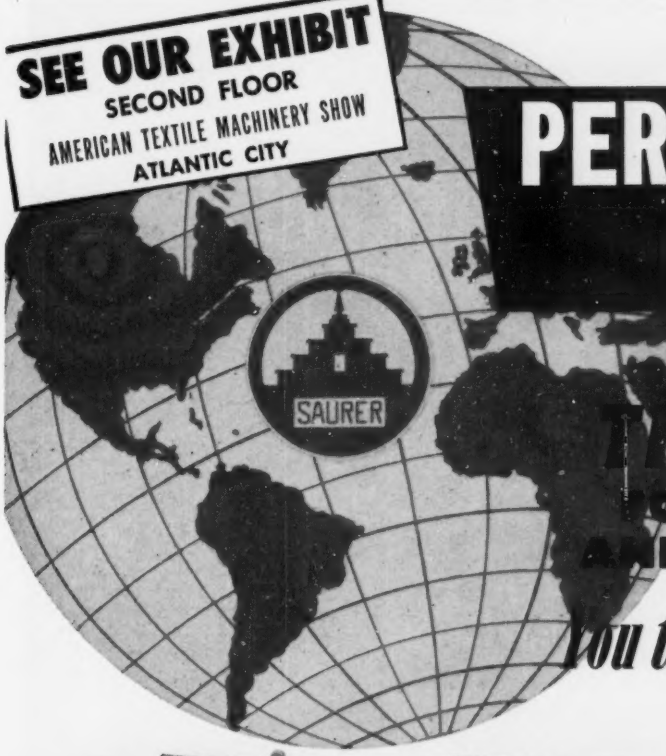
TORRINGTON NEEDLE BEARINGS

Needle • Spherical Roller • Cylindrical Roller • Tapered Roller • Ball • Needle Rollers

Trade-marks of leading pneumatic tool manufacturers whose products enjoy the benefits of Needle Bearings.

Ingersoll-Rand · Mall · Buckeye Tools Corporation · Cleco Air Tools · Porter Cable · K Keller Tools · Milwaukee · Thor · NS National Air Sander · Rotor Tool · ARO

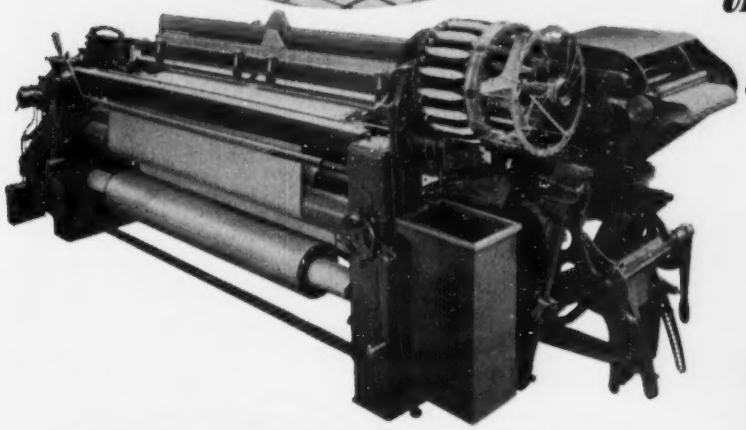
SEE OUR EXHIBIT
SECOND FLOOR
AMERICAN TEXTILE MACHINERY SHOW
ATLANTIC CITY

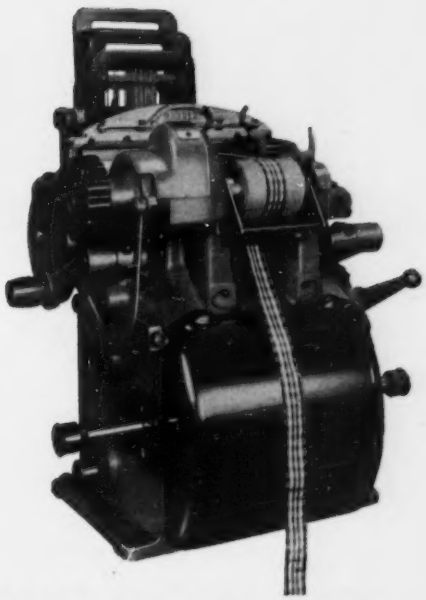


PERFORMANCE-PROVEN

IROUGHOUT
E WORLD
OR HIGH SPEED
D HIGH QUALITY

You too, can profit from their versatility and efficiency





● The fundamental design of SAURER broadcloth looms meets today's demand for **high speed** and **flexibility** of production. ● Sturdy frame and low center of gravity minimize vibration. ● Free of superstructure, SAURER looms too, are amazingly compact. ● Interchangeable accessories make possible the alternate weaving of cotton, woolens, synthetics in weights as varied as sheer muslins or medium-heavy canvas. ● Precision-machined units throughout assure trouble-free service even under severe use. ● Replacement parts, although seldom needed, promptly available.

FOR INCREASED PRODUCTION AT LOWER COST, FOR EASE OF OPERATION, SEE... COMPARE SAURER EQUIPMENT!

SAURER

SOCIETE ANONYME ADOLPHE
S A U R E R
ARBON • SWITZERLAND

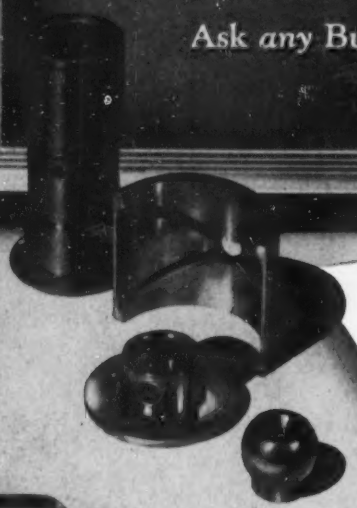
HAE—S6B—3.54

Among other obligations...

When an order is accepted the obligation to supply the commodity as stated in the contract is routine. But every purchaser knows that there are many other and additional services that the seller can render which serve the convenience and interests of the customers.

Along with every order accepted by the Bunting organization is also accepted the obligation to cooperate with the customer as well as to deliver the items as specified.

Ask *any* Bunting customer.



The sleeve bearing is not complex in structure; it conforms readily to design requirements; it is easily installed. Cast Bearing Bronze is the most adaptable of all sleeve bearing materials; it possesses excellent anti-friction properties. With proper film lubrication, its coefficient of friction is as low as can be obtained with any other bearing type. A successful Bunting Bronze bearing installation is readily attainable. We ask the opportunity to work with you, and to quote on your requirements.

Bunting

BRONZE BEARINGS • PRECISION BRONZE BARS • BUSHINGS

THE BUNTING BRASS & BRONZE COMPANY • TOLEDO 1, OHIO • BRANCHES IN PRINCIPAL CITIES

NOW FROM ROHM & HAAS
TRITON AS-35

A stable, high-foaming detergent, wetting agent, and level dyeing assistant

TRITON AS-35 is characterized by high foam, excellent detergency, and good wetting and level dyeing properties. TRITON AS-35 possesses excellent softening and lubricating properties for protecting fiber, yarn, or fabric during severe processing.

For kier boiling of cotton goods, TRITON AS-35 is mutually soluble and beneficial with pine oil, and gives fabrics improved absorbency and greater uniformity. Yet it shows no defects attributable to channelling or scum caused by hard-water soaps.

Its excellent detergency and high foaming properties make TRITON AS-35 extremely effective for soaping off prints.

For scouring piece goods, the cushioning effect of TRITON AS-35 suds minimizes wrinkling and creases.

Consider TRITON AS-35 as a level dyeing assistant for fast wetting in acid dyeing, uniform shades of good clarity with direct dyes, and increased dispersion and color value of acetate dyes.

Write today for complete information on TRITON AS-35

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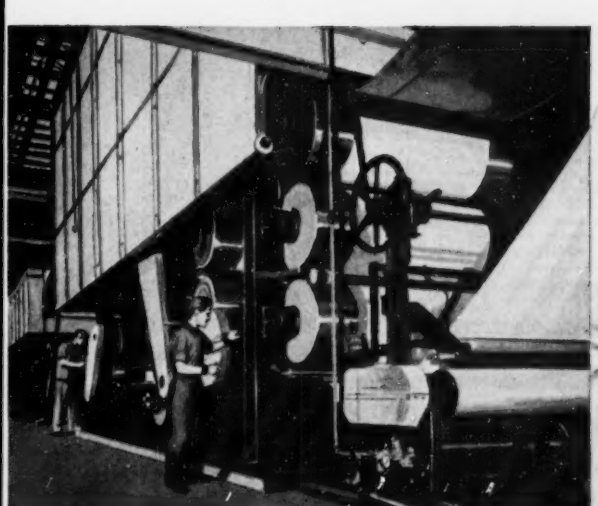
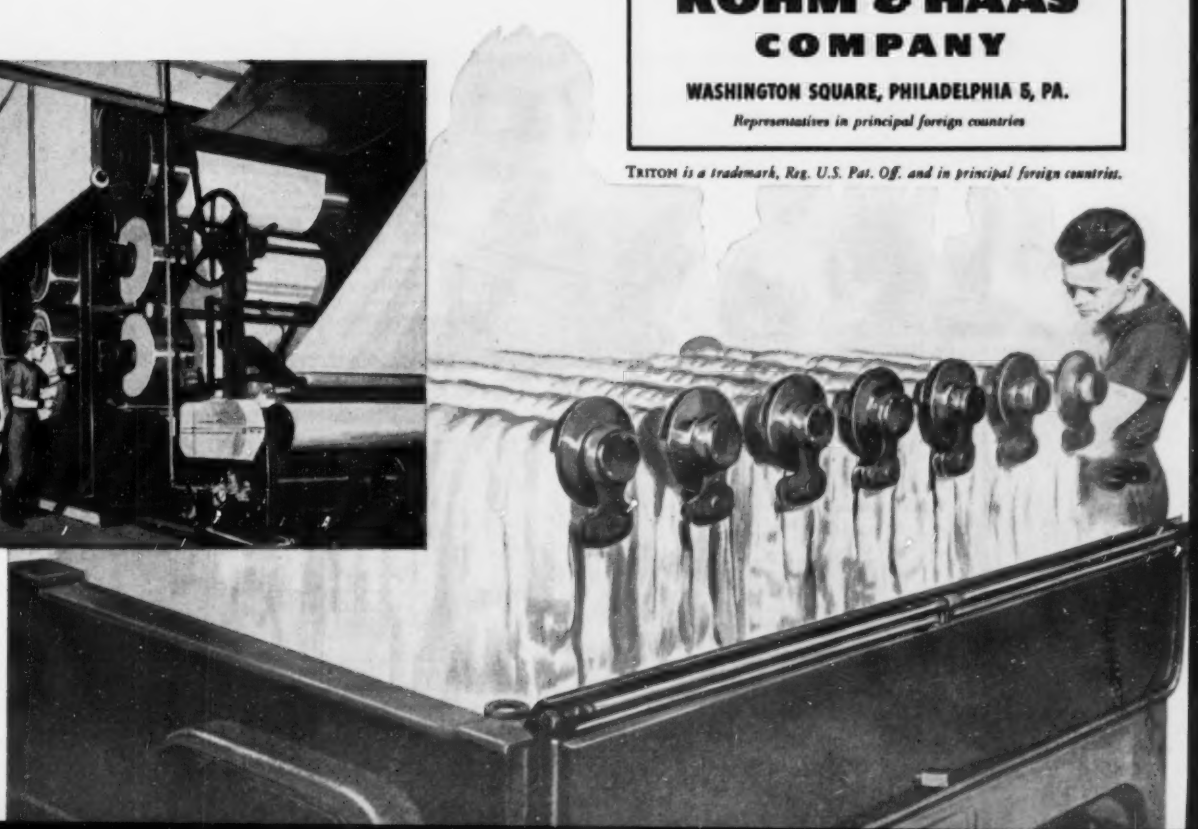
ROHM & HAAS COMPANY

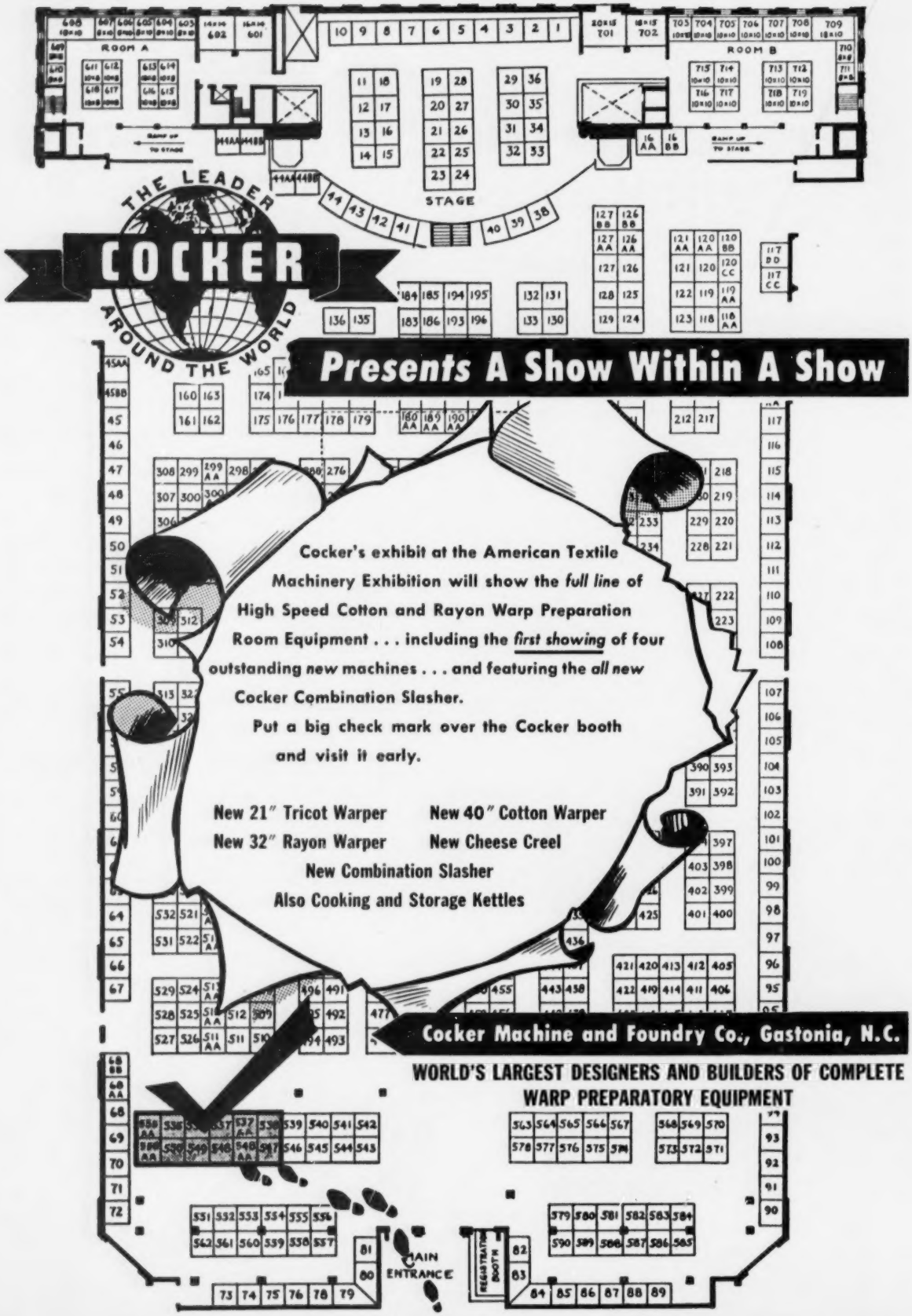
WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

TRITON is a trademark, Reg. U.S. Pat. Off. and in principal foreign countries.



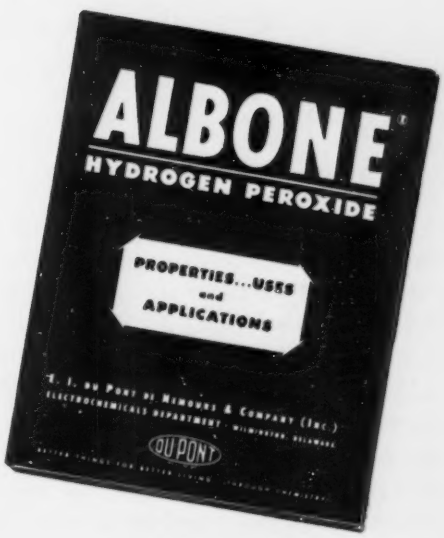



THE LEADER
COCKER
AROUND THE WORLD
Presents A Show Within A Show
Cocker's exhibit at the American Textile Machinery Exhibition will show the full line of High Speed Cotton and Rayon Warp Preparation Room Equipment . . . including the first showing of four outstanding new machines . . . and featuring the all new Cocker Combination Slasher.
Put a big check mark over the Cocker booth and visit it early.
New 21" Tricot Warper
New 40" Cotton Warper
New 32" Rayon Warper
New Cheese Creel
New Combination Slasher
Also Cooking and Storage Kettles
ROOM A
ROOM B
STAGE
MAIN ENTRANCE
REGISTRATION BOOTH
Cocker Machine and Foundry Co., Gastonia, N.C.
WORLD'S LARGEST DESIGNERS AND BUILDERS OF COMPLETE WARP PREPARATORY EQUIPMENT

How can I use "ALBONE" 35 and 50 interchangeably?

What are the preferred construction materials for peroxide storage and bleaching equipment?

You'll Get the Answers to These and Other Questions in This New Reference Book...



This is the practical reference book for the textile processor, the man who is using "Albone" hydrogen peroxide to bleach cotton, wool, rayon and silk or in oxidation of vat colors.

You'll find information on economical peroxide bleaching...testing of bleach baths...efficient everyday handling of hydrogen peroxide in use and storage... and typical textile processing equipment, as well as other useful data.

FOR YOUR FREE COPY, JUST CLIP AND MAIL THE COUPON

ALBONE®

(HYDROGEN PEROXIDE)

"Albone" 35 . . . hydrogen peroxide, 35%
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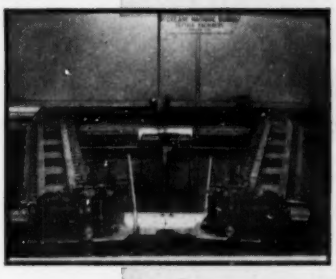
McCreary 1-pass system†

provides low cost finishing of synthetic tricots and woven fabrics

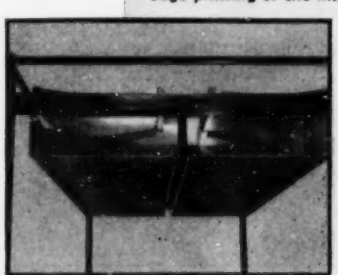
Exclusive features . .

- Automatic Pinning and Overfeed
- Roller Bearing Tentering Frames
- Electronic Guider Control
- Jet Type Forced Air Dryer
- *G-E Calrod Radiant Heat Setting
- *G-E Reactrol Control



Automatic overfeed combined with new type roller bearing tentering frame adjusts for cloths of any width from narrow nets to wide tricots.

New super-sensitive guider-finger, with electronic controls and *G-E Dynamic Breaking, permits very close, accurate edge pinning of the finest cloth.



Electro setting unit combines *G-E Calrod radiant heaters and *G-E Reactrol Control, an electronic system which holds cloth temperature within the most rigid tolerances.

The McCreary CONTINUOUS PROCESS embodies the most advanced electronic and mechanical processes yet developed for feeding, drying and setting nylon, other synthetic and resin treated fabrics of superior quality and at substantial savings. The automatic feed gives positive and accurate control of the feeding of any width fabrics, assuring greater yield. The high velocity jet type forced air dryer continues this high speed low-cost operation. The electro setter sets fabrics accurately within the known temperature range of all synthetics . . . and again at low cost and with high speed. Installed in famous mills located throughout the world, the McCreary Process has proven itself the lowest cost method of finishing cloth yet available.

McCreary MACHINE WORKS, INC.

Manufacturer of Textile Finishing Machinery Since 1874

Cohoes, New York

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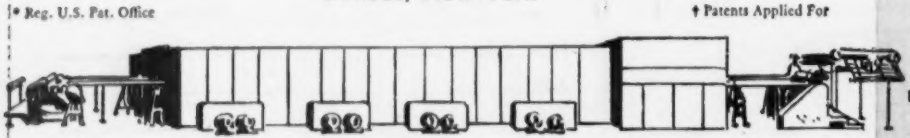

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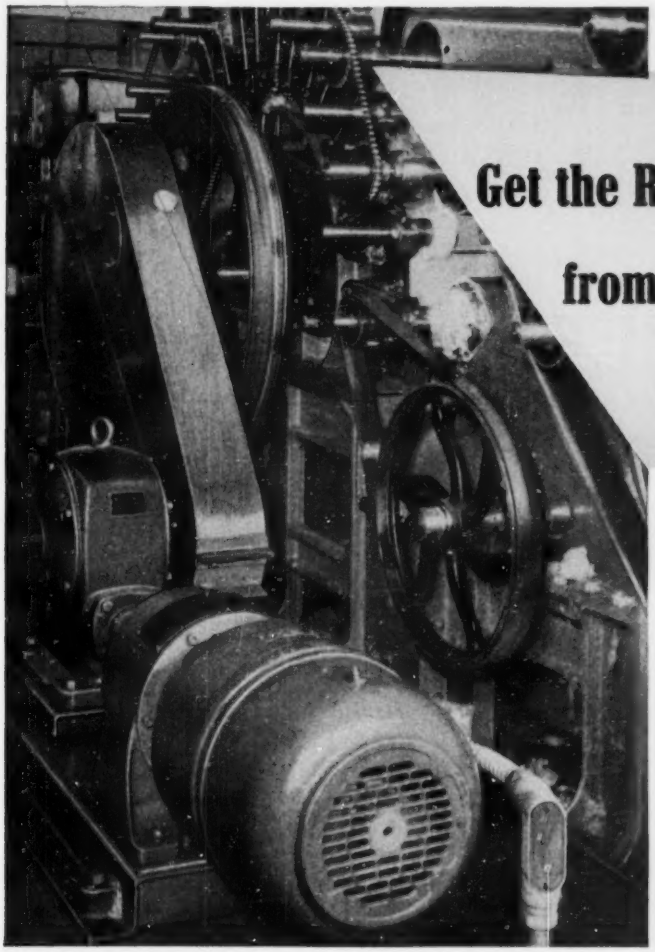


Link-Belt drive for this second breaker and finisher includes 10-hp Electrofluid drive, coupling, worm gear drive, silent chain and welded steel baseplate.

Get the RIGHT drive combination from LINK-BELT's complete pre-integrated line

YOU'LL find your power transmission costs are lower in two ways when you use Link-Belt drives. Only Link-Belt offers such a broad range of types and sizes in helical, gearmotor, herringbone and worm gear designs . . . in fluid and variable speed drives . . . in chains, couplings, bearings and shafting. What's more, Link-Belt gives you pre-engineered correlation of all its power transmission equipment . . . *right from stock.*

This exclusive combination not only simplifies even the most complex problem —it actually cuts your costs. Here's how:

You save on installation! Dimensions of all components are correlated with those of the enclosed drives. There's no alignment problem . . . no need to exchange drawings with other suppliers.

You save on operating costs! Power consumption is lower because overall efficiency is assured. And maintenance costs go down when you rely on quality-built Link-Belt equipment.

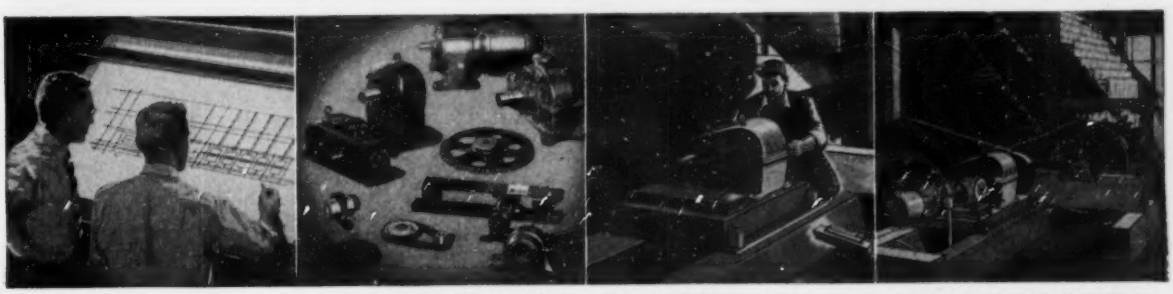
Next time you're faced with a power transmission job, let us figure the best combination for your exact requirements. Call the Link-Belt sales office or distributor nearest you for all the facts.

LINK-BELT

POWER TRANSMISSION EQUIPMENT

LINK-BELT COMPANY: Executive Offices, 307 N. Michigan Ave., Chicago 1. To Serve Industry There Are Link-Belt Plants, Sales Offices, Stock Carrying Factory Branch Stores and Distributors in All Principal Cities. Export Office: New York 7; Canada, Scarboro (Toronto 13); Australia, Marrickville, N.S.W.; South Africa, Springs. Representatives Throughout the World. 19.479

Visit Link-Belt at the American Textile Machinery Show, Atlantic City, April 26-30

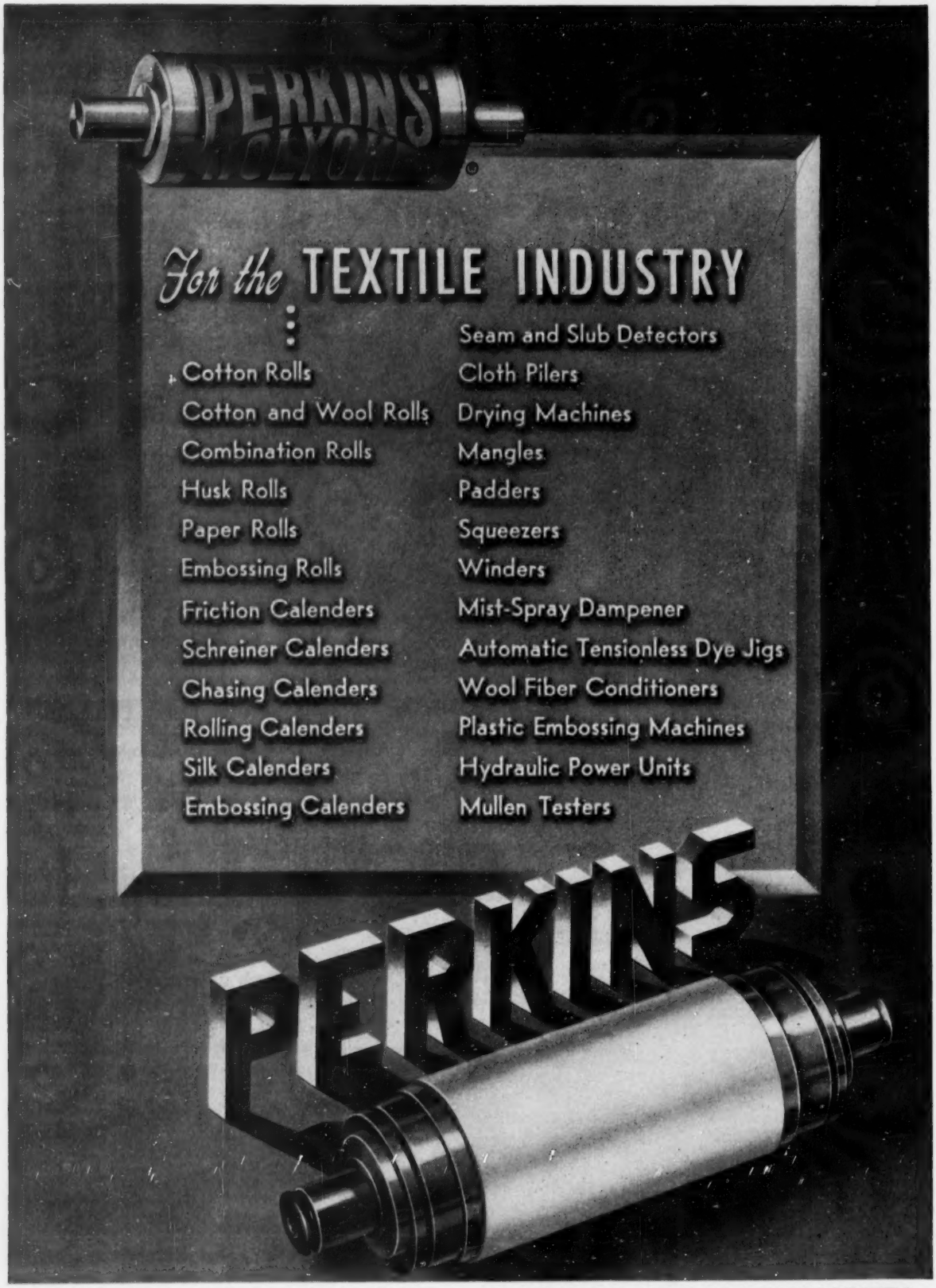


OVERALL ENGINEERING. Vast experience of design and field engineering staff integrates all factors, assures expert planning.

ALL COMPONENTS. Link-Belt builds a complete line of power transmission machinery, provides components of top efficiency.

PRE-ASSEMBLY. Sprockets can be mounted in our shops—bearings fully protected. No need to get drawings from other sources.

SINGLE RESPONSIBILITY. When you rely on Link-Belt as a source, we accept responsibility for overall operation.



B. F. PERKINS & SON, INC. • HOLYOKE, MASSACHUSETTS

What's beyond the WELCOME mat?

Today—every chemical producer will welcome your business. But in these days of *keen competition* and *plentiful supply*, the experienced chemical buyer looks beyond the welcome mat and the "glad hand." He goes further than a mere check of prices and specifications. In selecting a supplier he looks for the assurances and "extras" that mark the leading producer.

These Added Extras are the main reason why so many chemical buyers have for over seventy years made their first call—SOLVAY!

The World's Largest and Most Modern Alkali Production Facilities—combined with the experience of more than two generations of highly-skilled production men—are the buyers' assurance of *dependable* SOLVAY *quality*.

A Technical Service that is Different! Available to all SOLVAY customers are the facilities of SOLVAY's *Industry-Wise* Technical Service. With separate sections for different industries, SOLVAY can offer unusual technical services not ordinarily available.

Five Manufacturing Plants that are strategically located, in addition to a nationwide chain of over 200 local distribution centers, assure SOLVAY customers quick, efficient deliveries—whether they order a bag or in multiple carloads.

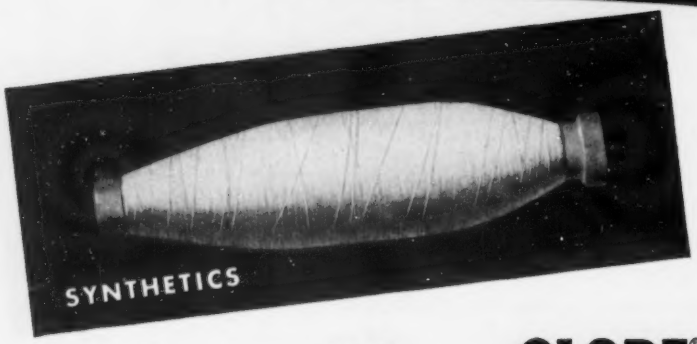
Buyers' Needs and Problems are handled by SOLVAY's trained and experienced *local* field representatives who operate out of SOLVAY's 13 branch offices.

For Top Quality Plus Other Extra Services that help you meet today's competitive conditions—be sure to *specify* SOLVAY!

SOLVAY

Soda Ash • Snowflake® Crystals • Potassium Carbonate • Calcium Chloride
Sodium Bicarbonate • Ammonium Bicarbonate • Cleaning Compounds
Caustic Potash • Sodium Nitrite • Ammonium Chloride • Chlorine • Caustic
Soda • Monochlorobenzene • Para-dichlorobenzene • Ortho-dichlorobenzene

SOLVAY PROCESS DIVISION
ALLIED CHEMICAL & DYE CORPORATION
61 Broadway, New York 6, N. Y.
BRANCH SALES OFFICES:
Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit • Houston
New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • Syracuse



Why a GLOBE® Gum is a preferred size for spun rayon, spun rayon blends and synthetics

Especially developed for sizing spun rayon and blends of spun rayon, Globe Brand Gum de-sizes readily. It forms a smooth, tough size that eliminates considerable breakage on the slasher and loom. Globe Gum delivers the size concentration you require due to its greater uniformity and stability of viscosity.

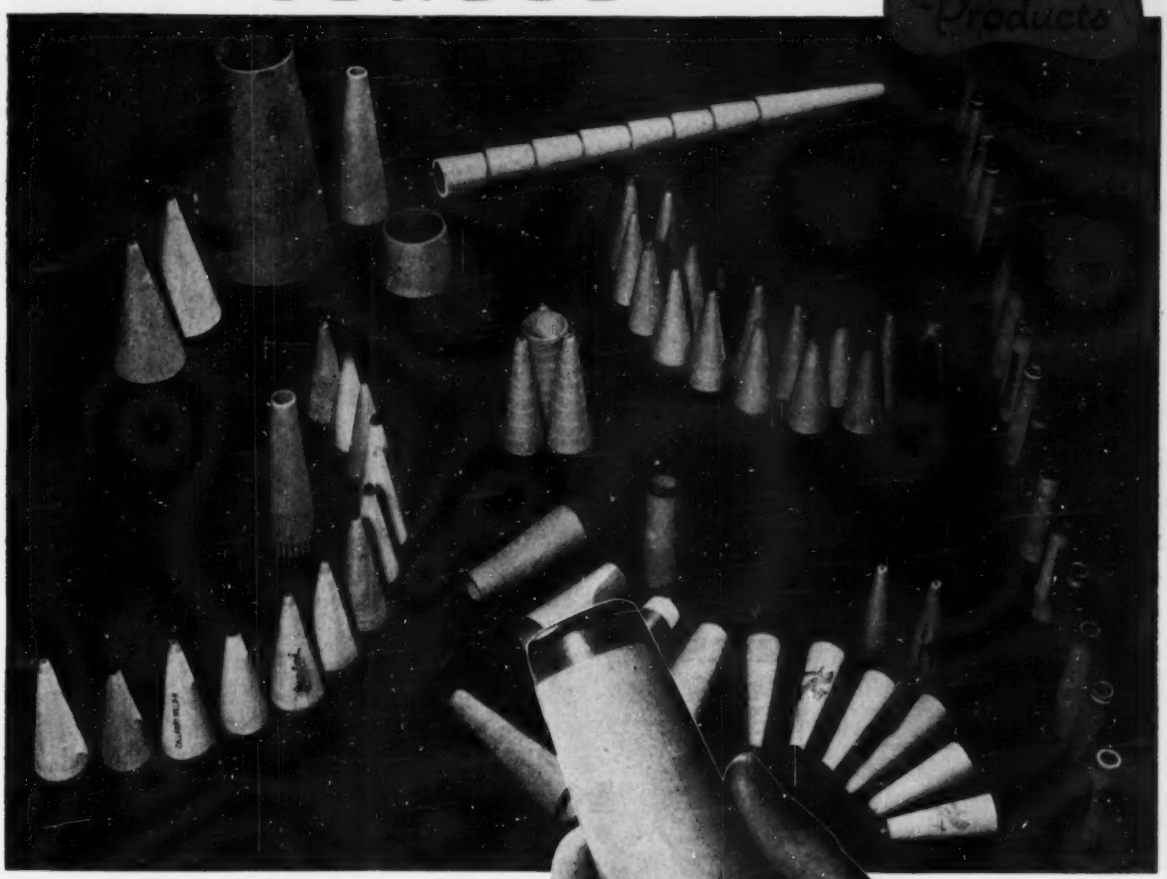
Globe Gum is manufactured under rigid controls to meet your size requirements exactly.

Free technical service . . . Our technical staff welcomes the opportunity to help you solve your production problems. No cost or obligation on your part. Write today.

CORN PRODUCTS REFINING COMPANY
17 Battery Place, New York 4, N. Y.

SONOCO

Precision Paper Products



CONES by Sonoco—standard of the world! For more than 50 years, Sonoco research has been successful in the development of a right cone and taper for every yarn.

Sonoco cones are supplied with various surfaces and can be printed in one, or more colors as applied with notches, slots, perforations, and in many engineered nose or tip designs to suit users. Lacquer tipping, dyed cases and tips, and printed bases can be furnished on cases as a means of quick identification.

Our complete laboratory and engineering departments are available for consultation.

sonoco — SERVES THE WORLD — PAPER CARRIERS

REG. U.S. PAT. OFF.

SONOCO PRODUCTS COMPANY

MAIN OFFICE—HARTSVILLE, S. C.

MYSTIC, CONN. LOS ANGELES, CAL. BRANTFORD, ONT. LOWELL, MASS.
PHILADELPHIA, PA. AKRON, IND. GARWOOD, N.J. GRANBY, QUEBEC

DEPENDABLE SOURCE OF SUPPLY

TEXTILE MACHINERY EXHIBITION — ATLANTIC CITY — APRIL 26 TO MAY 1, 1954 — AMERICAN ASSOCIATION

Booths 71-72

Utica & Mohawk Cotton Mills Division
J. P. Stevens & Co. Inc., Clemson, S. C. Plant
Reputed to be the largest one story, completely air conditioned textile plant in the world. The plant produces sheetings from bale to cloth, with spinning, weaving, sewing and finishing all under one roof.

LOCKWOOD GREENE

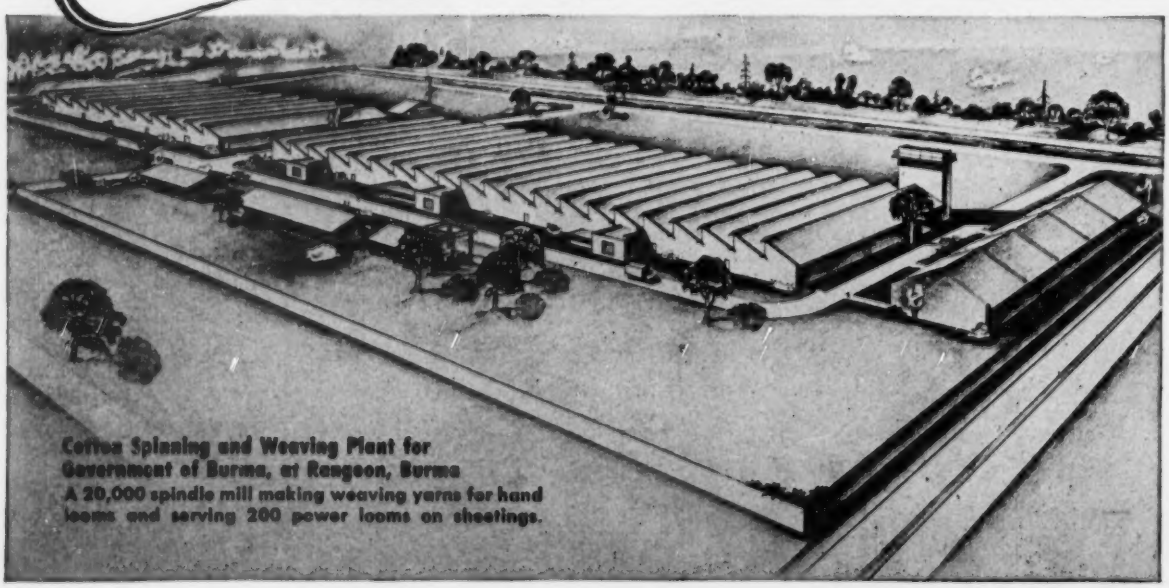
Projects in COTTON

Lockwood Greene's work, originating in 1832, was the design of cotton mills. In the field of cotton textiles, Lockwood Greene has had over 2,400 engagements, and has designed projects totaling almost a half billion dollars in value.

LOCKWOOD GREENE

ARCHITECTS-ENGINEERS

BOSTON 9, MASS.	NEW YORK 20, N. Y.	SPARTANBURG, S. C.
40 Central Street	10 Rockefeller Plaza	Montgomery Building



Cotton Spinning and Weaving Plant for Government of Burma, at Rangoon, Burma
A 20,000 spindle mill making weaving yarns for hand looms and serving 200 power looms on sheetings.

A WOOLEN MANUFACTURER
ASKED FOR:

Bright violet checks

The dyehouse delivered a perfect job,
thanks to a new Sandoz dyestuff development

Problem:

Recently a high-grade woolen manufacturer wanted to put out a fabric with bright violet checks. The problem was that the fast-to-light violets then available did not have sufficient fastness to fulling, and would stain the white checks, while the fast-to-fulling violets did not have sufficient fastness to light.

Solution: a new Sandoz dyestuff

The problem was solved by Sandoz' timely announcement of Brilliant Alizarine Milling Violet FBL Pat. This is the first violet dyestuff which possesses the required brightness of shade, along with both fastness to light and fastness to fulling. In addition to these properties, it also has excellent fastness to carbonizing, decatizing, crocking, salt water, perspiration, and washing.

Brilliant Alizarine Milling Violet FBL Pat. is the newest of several fast-to-light colors which Sandoz has pioneered. By combining them with Brilliant Alizarine Milling Blue BL Pat., Blue 2RL Pat., Blue FGL Pat., or Brilliant Alizarine Milling Red FBL Pat., it is now possible to produce violets in any shade or depth with excellent fastness properties.

• • •

If you are faced with the problem of obtaining a special shade or fastness for any fabric, natural or synthetic, Sandoz Technical Service may be able to help you solve it.

Write to your nearest Sandoz branch office in Hudson, Mass.; Providence; Fairlawn, N. J.; Philadelphia; Charlotte; Cincinnati; Los Angeles; Montreal; Toronto. Sandoz Chemical Works, Inc., 61 Van Dam Street, New York 13, N.Y.

SANDOZ

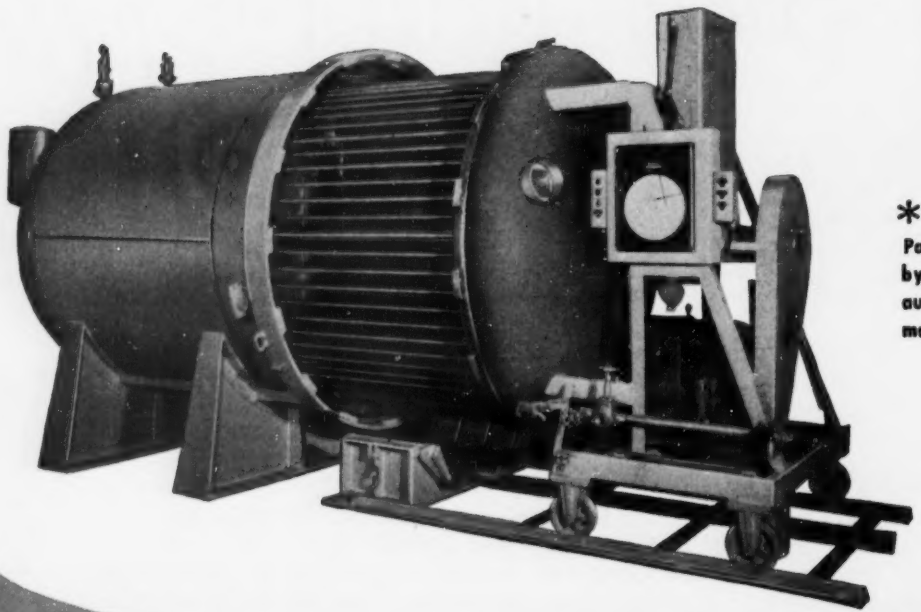
SANDOZ

THINKS AHEAD WITH TEXTILES

Announcing NEW

DU PONT BAROTOR *

by WIESNER-RAPP



* Patent applied for by DU PONT authorized manufacturer

for pressure-dyeing fabrics . . .

IDEAL for pressurized fabric-dyeing of man-made and natural fibers, this new Barotor produces superior quality, levelness and fastness in the full range of shades on a large-scale production basis.

For the first time, this newly developed dyeing machine incorporates *all* the following 12 important features for superior dyeing:

1. Fabrics at open width at all times
2. Tensionless
3. All points in uniform and frequent bath contact
4. Rapid bath circulation and agitation
5. Operable with all woven fabric construction, both filament and spun
6. Widely adaptable for batch size
7. Have no need for attention during dyeing
8. Excellent duplication of conditions between laboratory and production scale
9. Fabric sampling and bath additions made without opening vessel and losing pressure, time or heat
10. Samples representative of the entire fabric
11. Cylindrical shape with maximum utilization of dyeing space
12. Investment commensurate with productivity in comparison with atmospheric dyeing

In addition, the patented quick opening door, an exclusive Wiesner-Rapp feature, greatly reduces the dyeing cycle time.

Available in production and laboratory size models. Write TODAY for complete catalog.

Be ahead . . . stay ahead with Wiesner-Rapp

SEE THE NEW WIESNER-RAPP BAROTOR IN BOOTH 866 AT THE ATLANTIC CITY ATMA SHOW, APRIL 26-30.

THE WIESNER-RAPP CO., INC.

1600 Seneca Street Buffalo 10, N. Y.

Manufacturers of Textile Finishing Machinery

To Insure LEVEL DYEING ...Add NOPCO® 1425-B

AND SUBTRACT 15% to 85% FROM YOUR COST!

No more streaky shades! From now on, you can count on turning out *uniformly* the exact shades you have chosen.

You can use Nopco 1425-B in either of two ways to get this result:

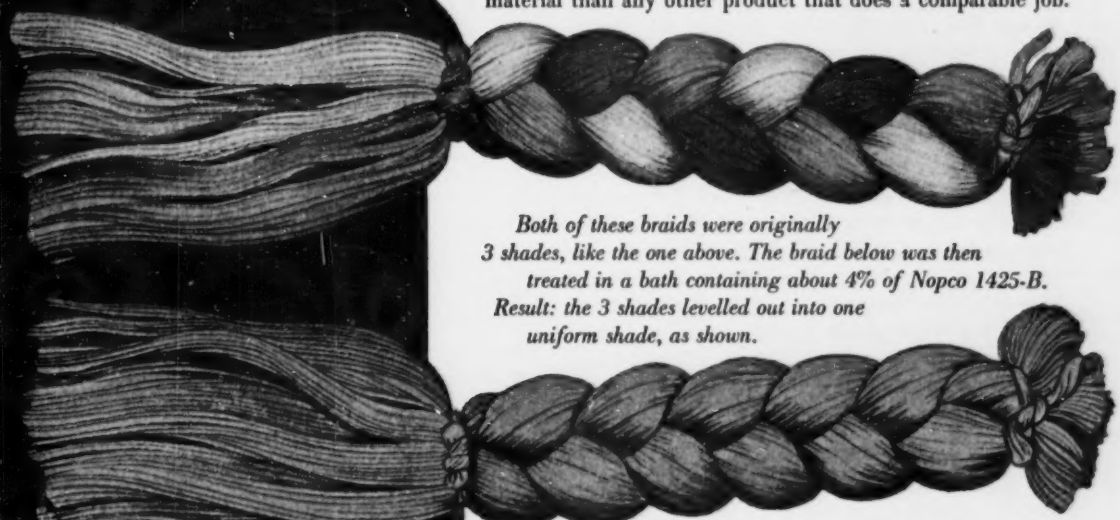
As a preventive. By adding a very small amount (0.25% to 1%) of Nopco 1425-B to the dyebath, you promote level dyeing by controlling the rate of dye absorption by the fiber. This of course is the preferred method.

As a corrective. Somewhat larger amounts (2% to 5%) of Nopco 1425-B may be used to correct streaky or overdyed shades.

NOPCO 1425-B OFFERS THESE ADVANTAGES:

1. More economical. It levels the dyeing instead of resorting to expensive chemical stripping and then re-dyeing.
2. Preserves tensile strength; is non-felting.
3. Does not require re-dyeing—merely re-shading in same bath.
4. Eliminates any danger of machine corrosion.
5. Results in greater leveling and stripping of colors, and the resulting bottom shade is generally cleaner than that obtained from chemical stripping.

In addition to the *big* savings here, resulting from the elimination of stripping and re-dyeing, there is the further striking fact that Nopco 1425-B costs from 15% to 85% less per pound of active material than any other product that does a comparable job.



Both of these braids were originally 3 shades, like the one above. The braid below was then treated in a bath containing about 4% of Nopco 1425-B. Result: the 3 shades levelled out into one uniform shade, as shown.

You'll want to know more about Nopco 1425-B—and a Nopco representative will gladly work with you to obtain best results. Write today.

NOPCO
CHEMICAL COMPANY
Harrison, New Jersey
PLANTS: Cedartown, Ga. • Richmond, Calif. • London, Ont., Canada

CUT YOUR MAINTENANCE COSTS WITH RUSCO WOVEN CHECK STRAPS

As you read this message, you are probably already standardizing on Rusco Woven Check Straps. For, throughout the country, progressive loom operators are proving to themselves the tremendous dollar savings inherent in this new woven material.

No more Monday morning adjustments — Rusco Woven Check Straps neither shrink nor stretch, settings remain constant for the life of the straps. And, the life is longer, the initial cost less! Our experienced representatives will gladly help you cut costs by supervising the installation of Rusco Woven Check Straps on your own looms. Write today for full details on this modern, high-efficiency product with a 10 year record of successful operation.

"A Textile Product for the Textile Industry"

CHECK BETTER
LAST LONGER
WILL NOT STRETCH
WILL NOT LOOP
NOT AFFECTED BY HUMIDITY
NO ADJUSTMENT AFTER INSTALLATION
LESS COST THAN LEATHER

RUSCO WOVEN CHECK STRAPS ARE AVAILABLE BOTH FLAT AND CURVED

For complete Information, Specifications and Prices, write:
MATTHEWS EQUIPMENT COMPANY, Providence, R.I., Atlanta, Ga., Greenville, S.C.
A product of **THE RUSSELL MANUFACTURING COMPANY**
Middletown, Conn. • Atlanta, Ga. • Bennettsville, S.C.

Make the right move!

Use Louis Allis Textile Motors and Adjustable Speed Drives

SELECT-A-SPEDE
An adjustable-speed drive for operation on A-C power. New magnetic amplifier, adjustable voltage control. 5 to 150 HP, single motor or multi-motor range drives.
LOOM MOTORS
Built especially for loom service. For new, old, and 3-point mountings. ½ to 2 HP.
SELF-CLEANING MOTORS
Pioneered and developed by The Louis Allis Co. for textile applications. Special torques for card drives, — soft starts for spinning frames — or any other special application.
AJUSTO-SPEDE
An Alternating Current adjustable speed drive using the versatile Eddy Current Clutch. ¾ to 75 HP. Also available in multi-unit range drives.
GENERAL PURPOSE
General-purpose motors include splash-proof as shown. Available with dye-house insulation, excellent for pump application in finishing and bleach plants.

Louis Allis has a special purpose motor or multi-motor range drive for any power requirement in the textile industry.

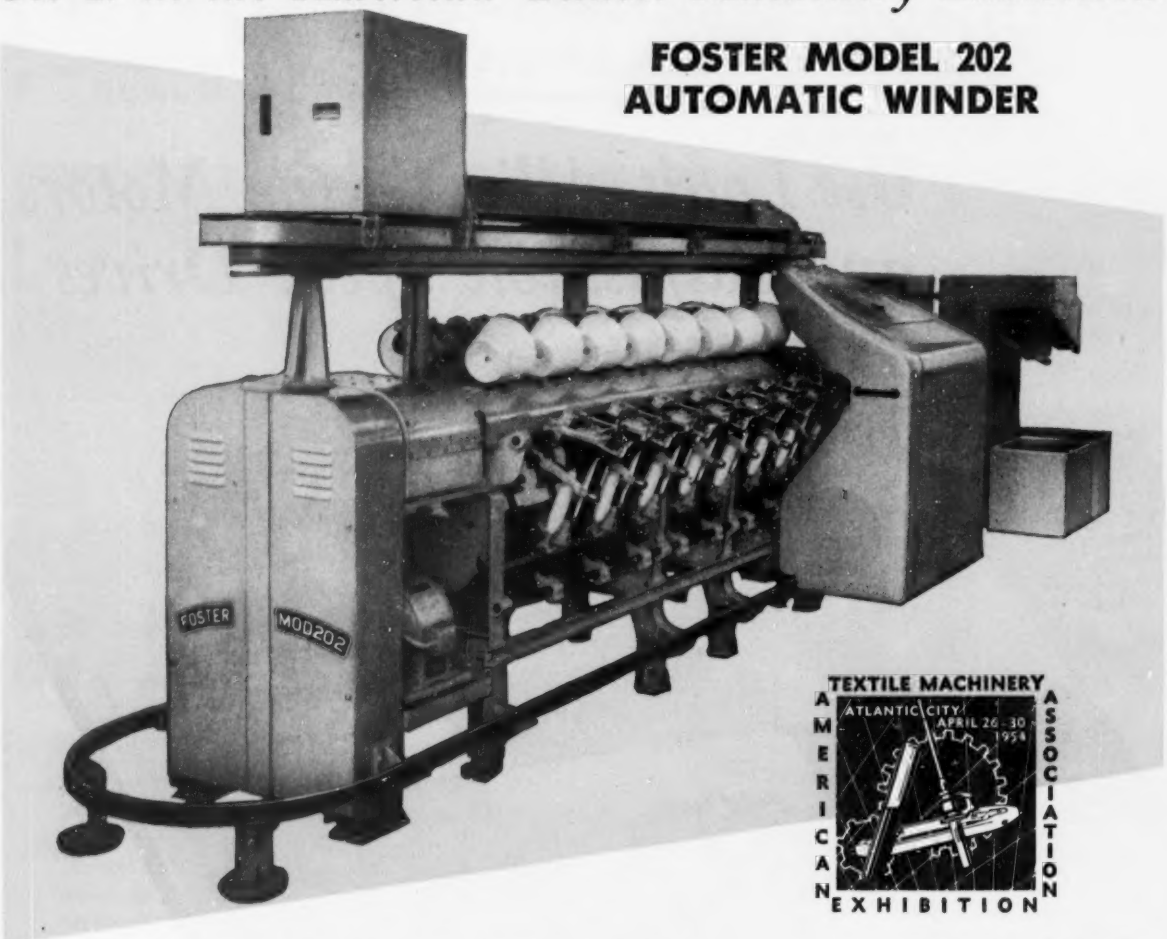
Louis Allis motors and multi-motored range drives are busy turning the wheels of the textile industry — on cards, pickers, warpers, tenters, spoolers, slashers, batchers, padders — and all the other complex machinery that produces America's fabric.

Let Louis Allis help you to select the proper motors or drives for greater production and more efficient operation. Consult your nearest Louis Allis District Office or write us.

THE LOUIS ALLIS CO.
MILWAUKEE 7, WISCONSIN

TD-182

See It at the American Textile Machinery Exhibition



The Only Automatic Machine which Winds Satisfactory Knitting Cones

This brand new machine, 10 years in the designing, making and testing, marks a new step forward in automatic cone winding. It produces cones which are satisfactory for knitting — identical in quality to cones produced on the Foster Model 102, whose product, for years, has been the standard of quality for the knitting trade.

PRODUCTION It also increases production per operator between 100% and 300% over non-automatic winders, depending on kind and count of yarn. Up to 120 spindles per machine.

AUTOMATIC FEATURES The machine automatically locates and ties ends down (in a weaver's knot), automatically doffs empty bobbins and automatically sorts partially filled and empty bobbins, conveying them to two separate bins.

OPERATOR The only duties of the operator are to put full bobbins in chutes, put the loose end in a clip, don and doff cones and thread up new cones.

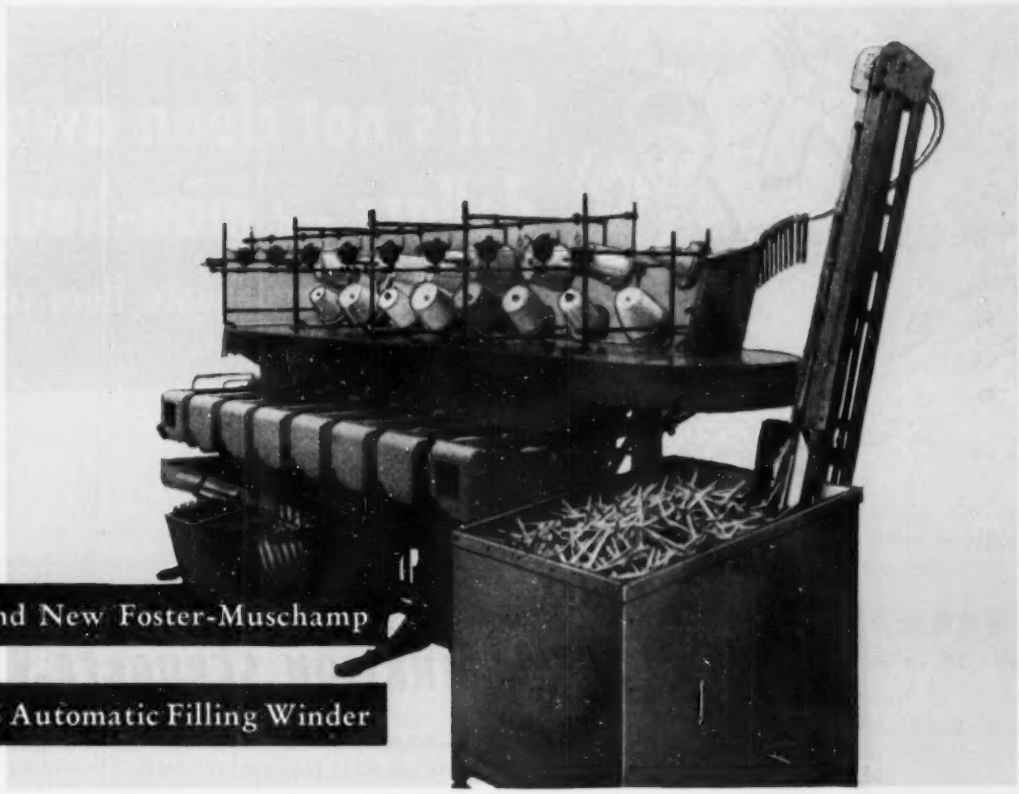
You can see this machine in operation at Booth No. 563, American Textile Machinery Exhibition, Atlantic City, N. J., April 26-30. Come and visit us.

FOSTER MACHINE COMPANY

Westfield, Mass., U. S. A.

Southern Office, Johnston Bldg., Charlotte, N. C. • *Canadian Representative,* Ross Whitehead & Co., Ltd., 1475 Mountain St., Montreal, Que., and 35-37 King St., W., Toronto • *European Representative,* Muschamp Textile Machinery Ltd., Keb Lane Bardsley, Ashton-under-Lyne, England.

SEE IT AT THE AMERICAN TEXTILE MACHINERY EXHIBITION



The Brand New Foster-Muschamp

Model 66 Automatic Filling Winder

INCREASES PRODUCTION PER OPERATOR BY 300% OVER COMPETING AUTOMATIC EQUIPMENT

This machine gives the highest production and the lowest winding cost yet achieved. One operator, with this machine, can handle 5000 net pounds of yarn per 8 hour shift at a cost of about 19 mils per pound of yarn quilled.

It operates at a spindle speed of 15,000 r.p.m. *while preserving the original quality of the yarn and producing practically perfect bobbins.* All the operator has to do is to keep the magazine creel loaded and thread up. Everything else is done automatically, including conveying empty bobbins to the spindles, starting and stopping the spindles, doffing of full bobbins and conveying them to pinboards. The standard machine is 32 spindles.

The machine is also highly flexible and therefore suitable for many different types of mills. Different counts or colors can be run on different spindles of the same machine at the same time and the machine will wind equally well all types of yarn and many different sizes — from coarse counts to the finest — filament or spun.

Don't fail to see this machine in operation at Booth 563, American Textile Machinery Exhibition, Atlantic City, N. J., April 26-30.

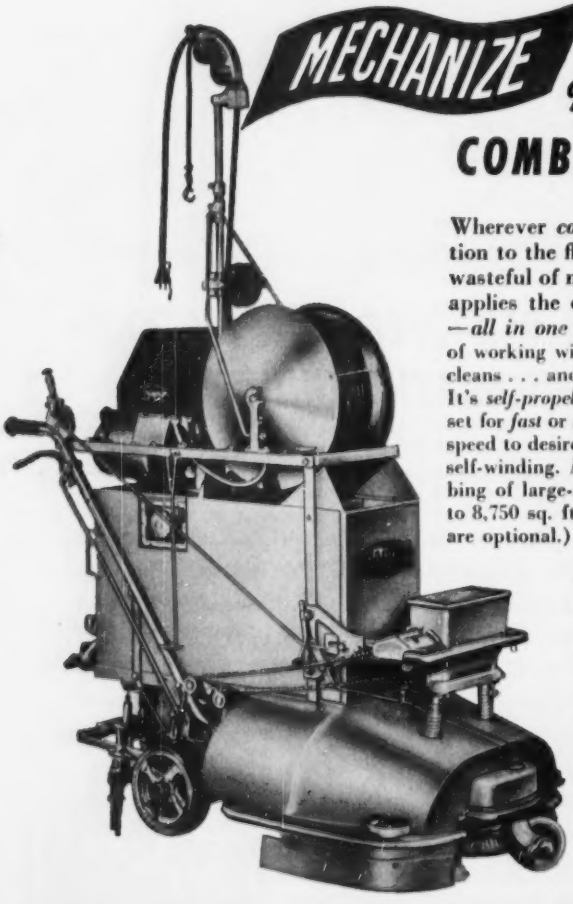
FOSTER MACHINE COMPANY

Westfield, Massachusetts, U.S.A.

Southern Office—Johnston Bldg., Charlotte, N. C.

Let's not clean away dollars and man-hours with costly, inadequate floor care

MECHANIZE *your floor-cleaning with a* COMBINATION SCRUBBER-VAC!



Wherever *combination-machine-scrubbing* is the practical solution to the floor-cleaning problem, any lesser, slower method is wasteful of money and manpower. A *Combination Scrubber-Vac* applies the cleanser, scrubs, flushes if required, and picks up —*all in one operation!* Maintenance men like the convenience of working with this single unit . . . the thoroughness with which it cleans . . . and the features that make the machine simple to operate. It's *self-propelled*, and has a *positive* clutch. There are no switches to set for *fast* or *slow*—slight pressure of the hand on clutch lever adjusts speed to desired rate. The powerful vac performs quietly. Cable reel is self-winding. *Model 213P Scrubber-Vac* at left, for heavy duty scrubbing of large-area floors, has a 26-inch brush spread, and cleans up to 8,750 sq. ft. per hour! (Powder Dispenser and Level Cable Wind are optional.)

Finnell makes *Scrubber-Vac Machines* in a full range of sizes—for small, vast, and intermediate operations. From this complete line, you can choose the size that's exactly right for *your* job (no need to *over-buy* or *under-buy*). It's also good to know that you can lease or purchase a *Scrubber-Vac*, and that *a Finnell floor specialist and engineer is nearby* to help train your maintenance operators in the proper use of the machine . . . to recommend cleaning schedules for most effectual care . . . and to make periodic check-ups. For demonstration, consultation, or literature, phone or write nearest *Finnell Branch* or Finnell System, Inc., 1304 East St., Elkhart, Ind. Branch Offices in all principal cities of the United States and Canada.

FINNELL SYSTEM, INC.

Originators of Power Scrubbing and Polishing Machines

Everything for Floor Care — FINNELL

BRANCHES IN ALL PRINCIPAL CITIES

Yarn of Identical Color from 6 Different Beams

. . . because All 6 were Dyed in the Same Bath

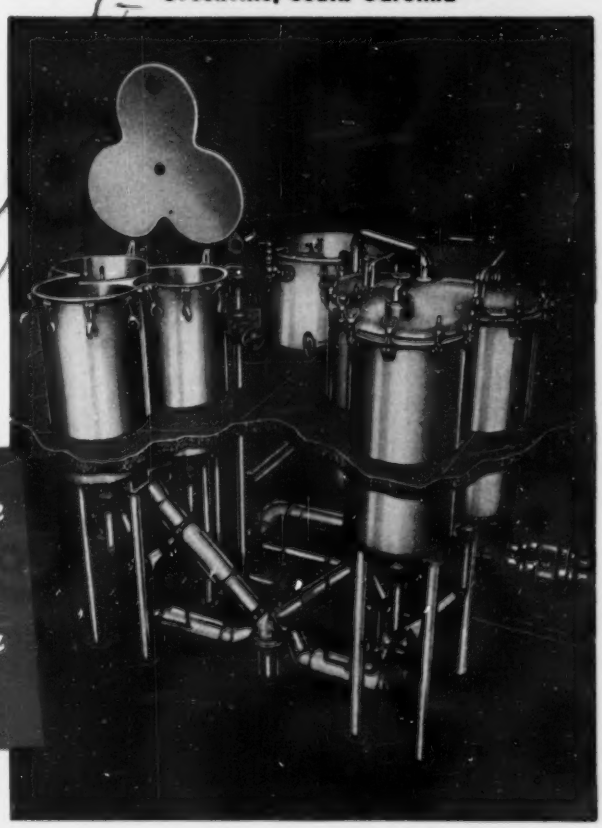
You can be positive of securing identical color only when the different beams or packages of yarn are dyed under identical conditions. And identical conditions are certain only when they are dyed in the same bath!

SMITH-DRUM Combination Beam and Package Dyeing Machines are designed to handle from 2 to 6 beams or yarn carriers simultaneously in the same bath and under identical conditions. This means that each beam or yarn carrier is dyed with the same liquor ratio . . . under the same operating conditions of flow, pressure and temperature . . . with uniform distribution of additions to the dye bath.

If you are interested in absolute uniformity of dyeing results, in economy of operation, in saving of floor space . . . let us arrange to have one of our representatives discuss the possible application of this SMITH-DRUM Machine to your operations. A letter, telephone call or wire will receive our prompt attention.

SMITH, DRUM & COMPANY
432 W. Allegheny Avenue, Phila. 33, Pa.

Southern Sales Representatives:
PARROTT & BALLENTINE
South Carolina National Bank Bldg.
Greenville, South Carolina

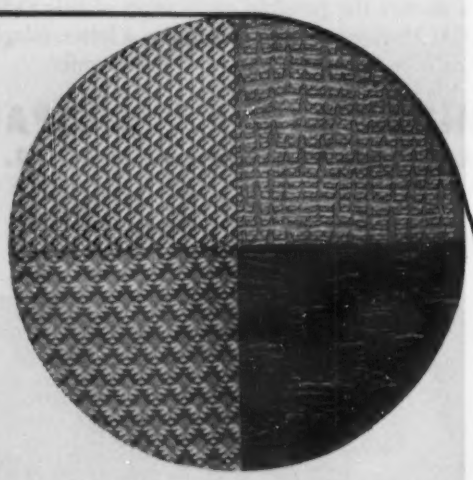


The SMITH-DRUM Machine that Dyes from 2 to 6 Beams or Yarn Carriers in the Same Bath!

Free copy of Catalog No. PBD-801 will be sent to you on request

THREE-POINT SERVICE...

Use the right resin the right way...



1 **A full line of resins...melamine, urea, modified urea (Resloom E-50)...** for embossed effects and crease-resistant applications. A series of three "AC" catalysts to meet your exact curing requirements.

2 **Unique development and evaluation facilities...** including the *first* lab-scale embossing machine. This machine is typical of Monsanto's basic position in the field of embossed fabrics.

Key to profitable embossing

Take advantage of Monsanto's

RESIN TECHNOLOGY

3 Experienced technical personnel. Many basic chemical aids for the textile industry are Monsanto developments . . . and Monsanto people, both in the lab and in the field, have had years of specialized practical experience.

Take advantage of Monsanto's Three-Point Service and discover the key to profitable embossing. Three-Point Service gives you every benefit of advanced textile resin technology—shows you how to use the *right resin* the *right way*.

Monsanto's basic position in the embossing and crease-resistant field starts: (1) With a complete line of thermo-setting resins . . . melamine, urea and modified urea . . . and three efficient catalysts. (2) Applications for these resins are developed and evaluated *by Monsanto*—using unique equipment such as the Butterworth laboratory-size embossing machine. (3) To complete the picture, expertly trained Monsanto sales and technical personnel translate their "know-how" into profitable production of saleable products in *your* plant.

To take advantage of this Three-Point Service, get in touch with MONSANTO CHEMICAL COMPANY, Textile Chemicals Department, Springfield 2, Mass.

Resloom E-50 Has Many Advantages

Resloom E-50, the most recent addition to Monsanto's broad line of finishes, is a modified urea resin with distinct advantages in deep embossed, Schreiner and glazed applications. It makes possible durable effects with improved hand characteristics—causes no yellowing of whites due to chlorine pick-up. Furthermore, Resloom E-50 simplifies processing in these ways: Does not build up on texturizing equipment, has excellent storage life and bath stability, is compatible with hand modifiers, durable to alkaline wash.

Resloom: Reg. U. S. Pat. Off.

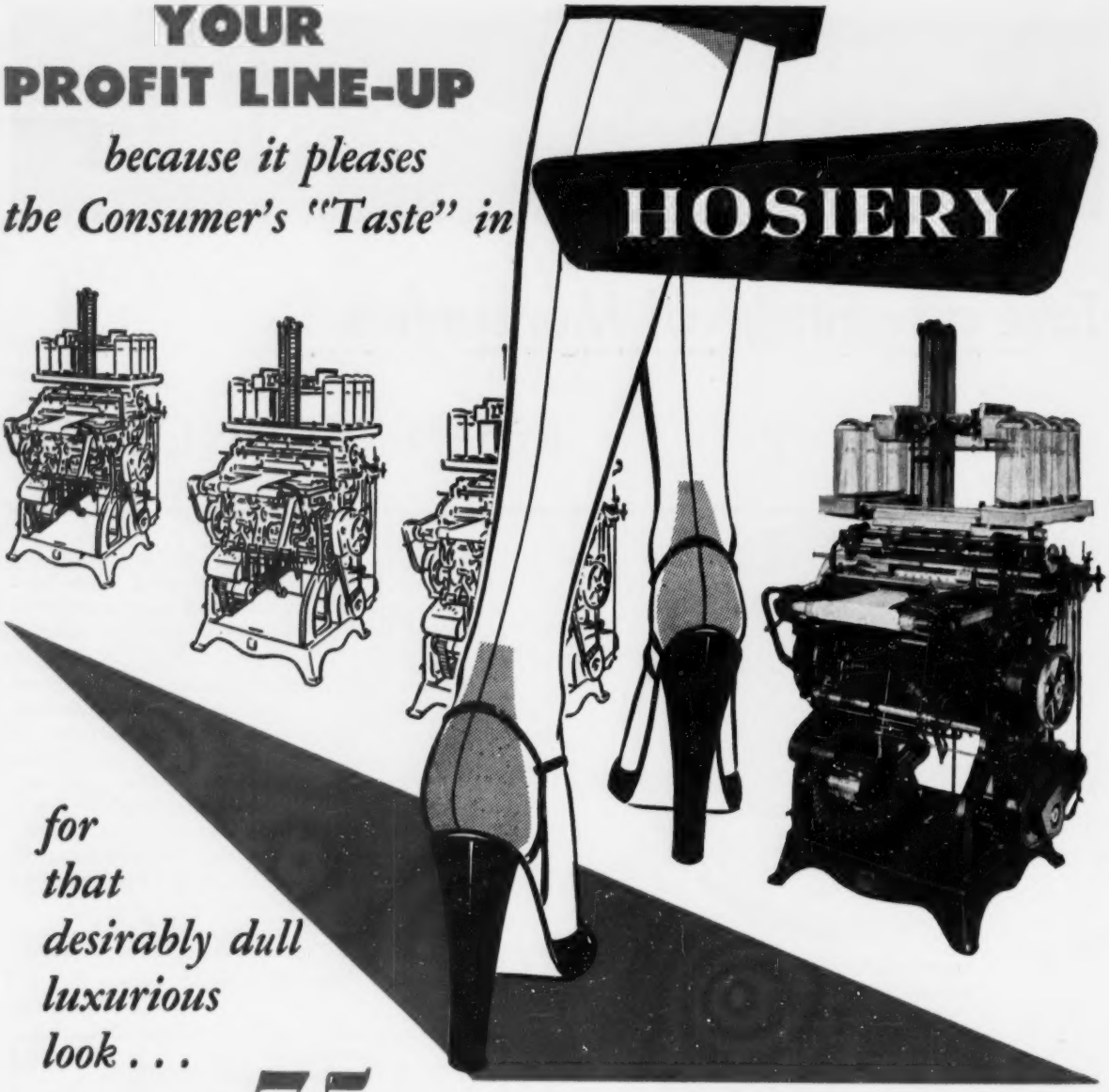
Because there is no substitute for experience . . . consult

MONSANTO

SERVING INDUSTRY . . . WHICH SERVES MANKIND

YOUR PROFIT LINE-UP

because it pleases the Consumer's "Taste" in HOSIERY



for that desirably dull luxurious look . . .

THE WILDMAN 75 GAUGE FULL FASHIONED HOSIERY MACHINE

IN THE HIGH GAUGE HOSIERY MARKETS . . . Hosiery machines that have proved their ability to maintain consistent high quality in production are a must in your profit-planning picture.

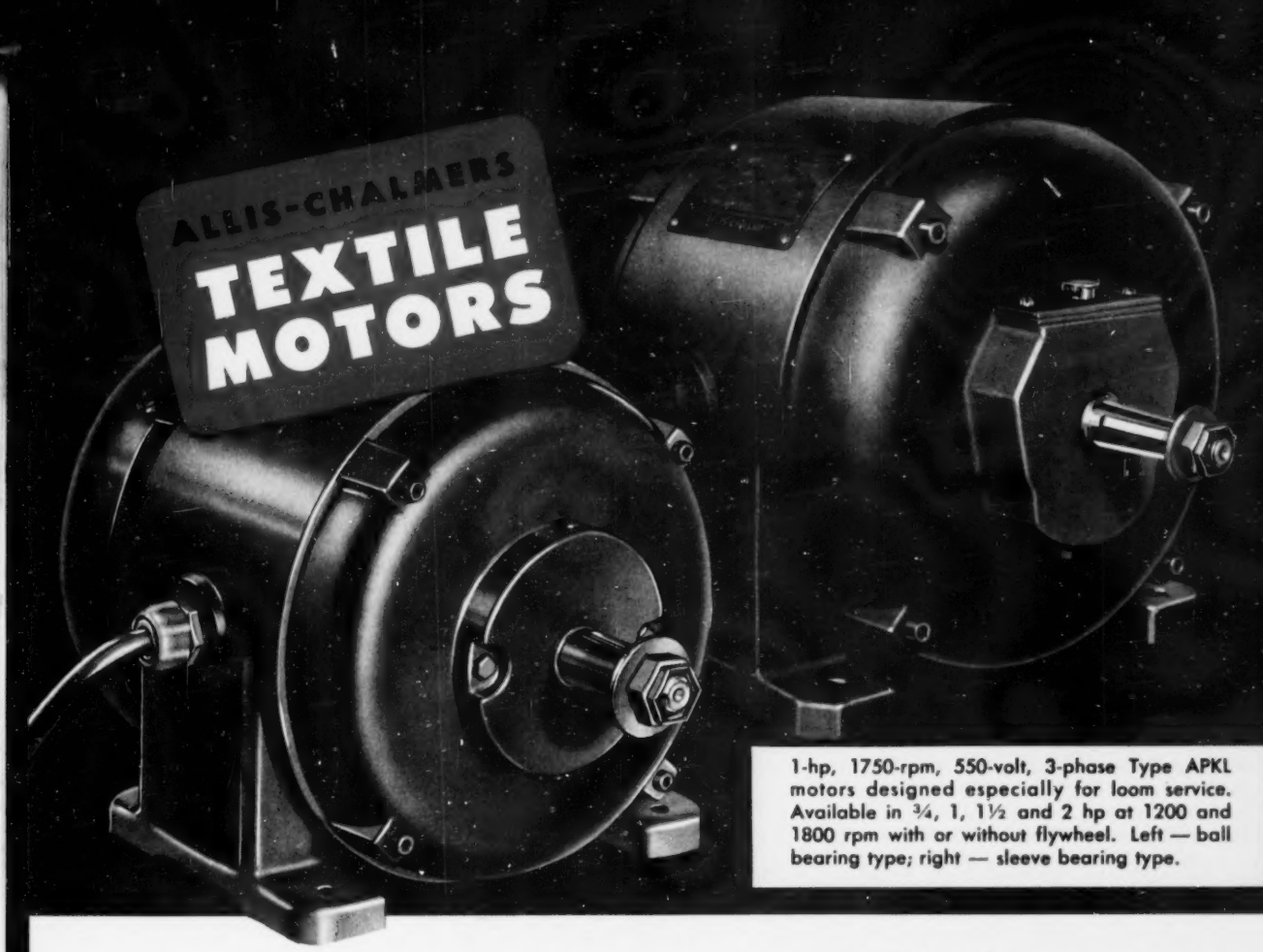
The WILDMAN 75, used by alert marketers, assures you, as have all WILDMAN hosiery machines, of a high-production, economical, efficient, automatic-in-operation production line . . . When hosiery is made on this machine the consumer will want to re-order your 75 gauge hosiery, because she will know she is buying uniformity in the highest elasticity. YOU will produce with maximum efficiency the tighter stitch that resists snagging; and you'll have a better wearing 12 denier stocking to sell, made on the WILDMAN 75 than on coarser gauge machines.

HIGHER HOSIERY PROFITS for you, when you use the WILDMAN 75 . . . Inquire today for complete details.

WILDMAN

MFG. CO., NORRISTOWN, PA.

MANUFACTURERS OF: FULL FASHIONED HOSIERY MACHINES; CIRCULAR MACHINES FOR OUTERWEAR, UNDERWEAR, SPORTSWEAR, TRIMMINGS; STOP MOTIONS



1-hp, 1750-rpm, 550-volt, 3-phase Type APKL motors designed especially for loom service. Available in ¾, 1, 1½ and 2 hp at 1200 and 1800 rpm with or without flywheel. Left — ball bearing type; right — sleeve bearing type.

NEW

LOOM MOTOR

Exhaustive tests prove this motor sets new electrical and mechanical standards. Mill operators get lower maintenance and longer life because of: low temperature rise . . . large rotor inertia . . . large bearings . . . small speed pulsation.

Research to solve motor problems caused by rapid cycling of high speed looms has resulted in this new Allis-Chalmers motor.

The rotor has been made extra heavy and in the largest possible diameter to provide maximum flywheel effect (WK^2) to meet the new and greater demands on loom motors from the higher and higher loom speeds of the past few years. Under some conditions a flywheel is mounted on the motor shaft to provide still more WK^2.

This motor is available with oversize greasable ball bearings, or sleeve bearings packed with wool waste to keep oil in place. In case of over-oiling in the latter type, provision is made for excess oil to drain to the outside, thus preventing damage to windings.

Get Complete Details

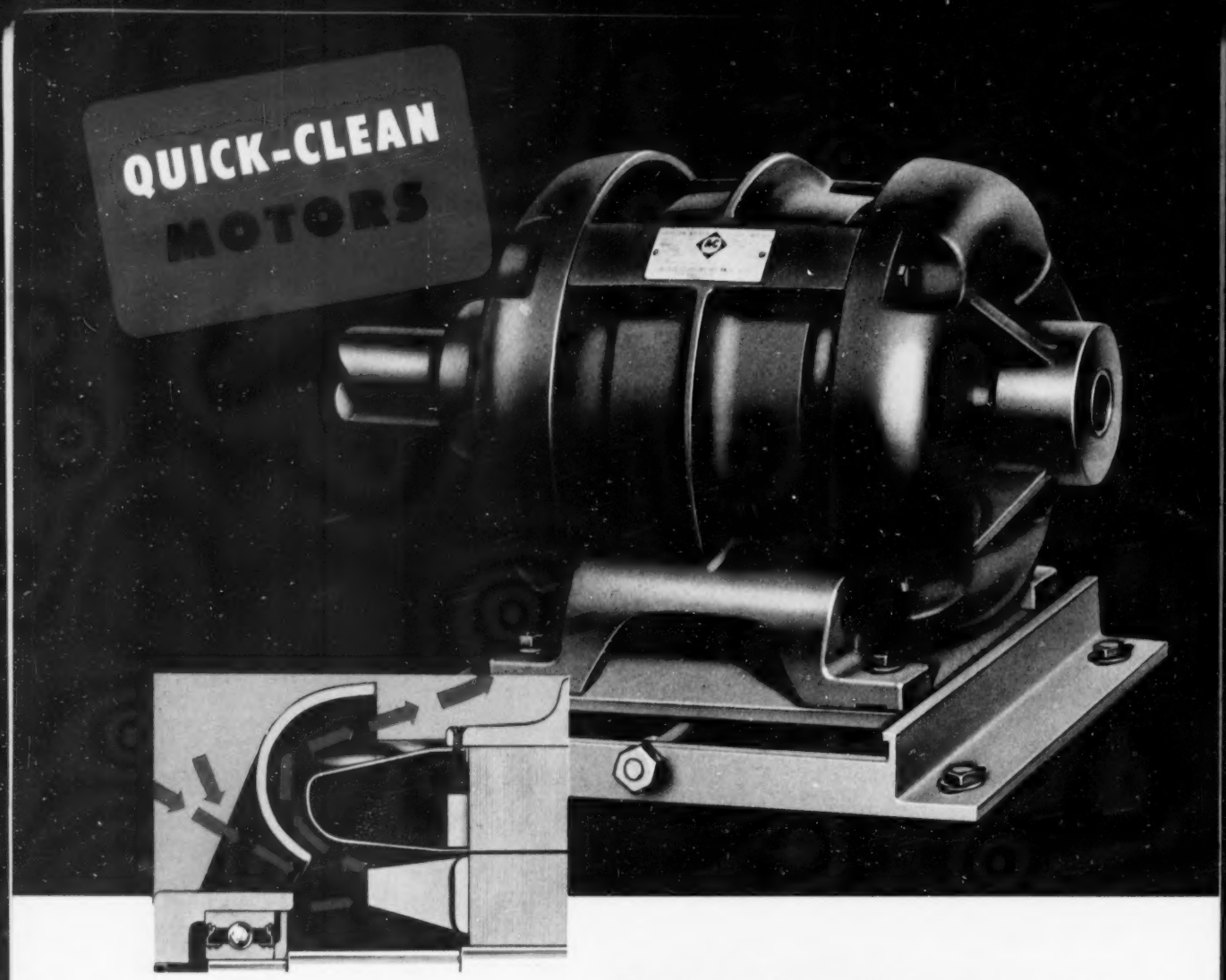
While this Allis-Chalmers loom motor is a completely new design from top to bottom, it has been in actual use in quantity for over a year. Get all the details on what this motor can do for your loom operation from your nearby Allis-Chalmers District Office. Or write Allis-Chalmers, Milwaukee 1, Wisconsin and ask for Bulletin 51B7111.

Matched Allis-Chalmers Loom Switch
Specially built for starting loom motors. Designed to fit the starting requirements of the new Allis-Chalmers loom motor. Buy the easy, economical way. Get the complete power unit — both motor and starter — from one reliable source, Allis-Chalmers.

A-4297

ALLIS-CHALMERS

A-C ALLIS-CHALMERS



get the motor dirt and lint can't stop!

There's no motor problem caused by lint-laden atmospheres that can't be solved using *Quick-Clean* textile motors.

Powerful fans sweep lint and dirt through wide open air passages — and right out of the motor.

Sealed and pre-lubricated double width, single row, ball bearings are an important feature of the *Quick-Clean* motor. They will operate for long periods without attention of any kind. When motor is dismantled, they may then be cleaned and repacked. Inside face of bearing is protected from lint by a collar pressed onto motor shaft.

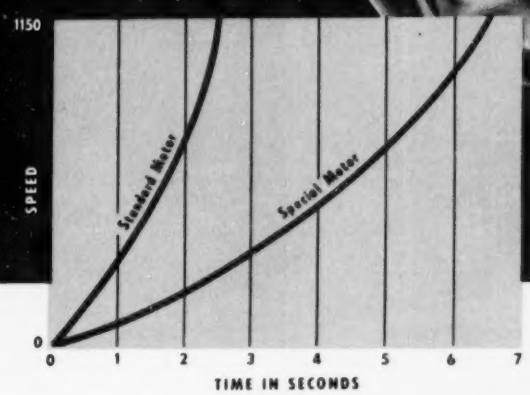
In addition Allis-Chalmers can supply control and *Texrope* V-belt drives to meet complete machine drive needs.

For complete information ask your Allis-Chalmers distributor, or district office representative.

ALLIS-

ALLIS-CHALMERS

ROVING FRAME DRIVES



slow starts, fine jogging —without special control

Slow, smooth acceleration, using Allis-Chalmers roving frame motor, reduces ends down, helps produce uniform roving. No special resistors — no acceleration reducing clutches — no special control is required.

Slow, smooth acceleration of motor (almost three times as long as a standard motor) provides e-v-e-n tension on the roving during starting periods. Special conduit box connections permit relatively high torque when required, such as during "break-in" period of the frame.

Quick-Clean frame design allows powerful fans to sweep lint and dirt in and out with the cooling air.

In addition Allis-Chalmers can supply control and *Texrope* V-belt drives to meet complete machine drive needs.

Call your Allis-Chalmers distributor or district office. Or, write Allis-Chalmers, Milwaukee 1, Wisconsin.

CHALMERS

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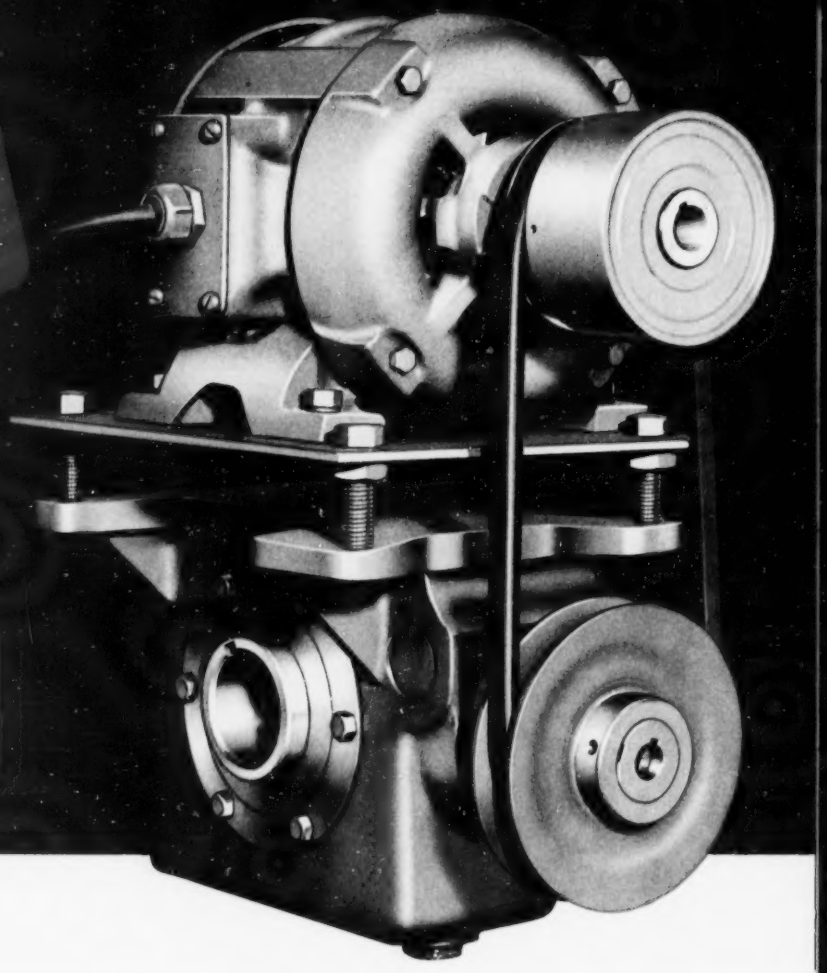
CARD DRIVES



Quick-Clean motor drives gear reducer through *Texrope* V-belt drive and centrifugal clutch.

make your card room safer, cleaner, lighter

Today's trend is to individual card drives. Overhead line shafting creates problems in lighting, cleanliness and safety that are only solved by individual drives. In addition, usual duct arrangements for air conditioning are difficult with the overhead drive.

Allis-Chalmers combines a *Quick-Clean* motor, *Texrope* drive and highly efficient gear reducer to make a compact, reasonably priced power package for cards.

There's no need to move cards to install this drive. Unit requires practically same floor space as tight-and-loose pulley drive. It is mounted directly on card shaft — independent of the card arch — with torque arm to keep the gear box from rotating. No strain on card arch to cause vibration or distortion of air gap between flats and main cylinder.

Cuts maintenance, too! No heavy, expensive belts to replace . . . no periodic belt dressing. In addition, drive is practically vibrationless, increasing life of card and making it easier to keep in adjustment. There's also a special reversing starter for this drive to permit grinding the clothing. Get details from your nearby A-C district office or distributor, or write Allis-Chalmers, Milwaukee 1, Wisconsin for Bulletin 51B7867.

Quick-Clean and *Texrope* are Allis-Chalmers trademarks.

ALLIS-CHALMERS

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Four Aces
OF DYEING

Nonionic* Dyeing Assistants

♥ **Telkanol O**—Effective levelling agent and dyeing assistant for wool, unions and furs. Its strong dispersing action for oils and fats makes it an excellent scouring agent in the acid or alkaline scouring of wool and wool wastes. Exhibits high resistance to acids, alkalies, salts and hard waters.

♠ **Dextrol Fast Salt M**—Dyeing assistant for acid metallized dyestuffs on wool. Reduces amount of sulfuric acid normally needed, cuts dyeing time, increases solidity of shade. Color fastness is improved for perspiration, rubbing and decatizing. Helps prevent loss of tensile strength of fiber.

♦ **Rexan O**—Promotes level dyeing and penetration with direct, basic and vat dyestuffs on all fibers except wool. Exhibits good wetting powers in dyebaths. Eliminates use of glue in vat dyeing and retards rate of exhaustion in first few minutes without impairing total color yield on the fiber.

♣ **Telkanite M**—Highly effective stabilizing agent and assistant for all types of napthol dyeing and printing. Has high stability and dispersing properties in acid medium which makes it particularly suitable for the pasting up and dispersing of bases.

*Polyoxyethylated fatty alcohol

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Textile Chemicals

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LEESONA® REPORTER

Universal Twisters Ideal for New Dacron* Filament

Those 3-pound cheeses of Dacron, heralding the first appearance of this synthetic in filament form, are becoming increasingly familiar in the textile picture. Naturally, they open up new profit possibilities to textile mills. But they also pose their own special twisting problems.

The many mills already equipped with Universal twisters can readily adapt themselves to meet these problems. Three Universal machines in particular —the Model 10 Ring Twister, the Model 200 Redraw, and the Unirail Uptwister — make an unbeatable combination for twisting Dacron zero twist yarn to meet any processing need. And their success in processing the widest variety of natural and synthetic yarn is proof positive of their ability to handle the new material with complete satisfaction.

The Model 10 is a Truly All-Purpose Ring Twister

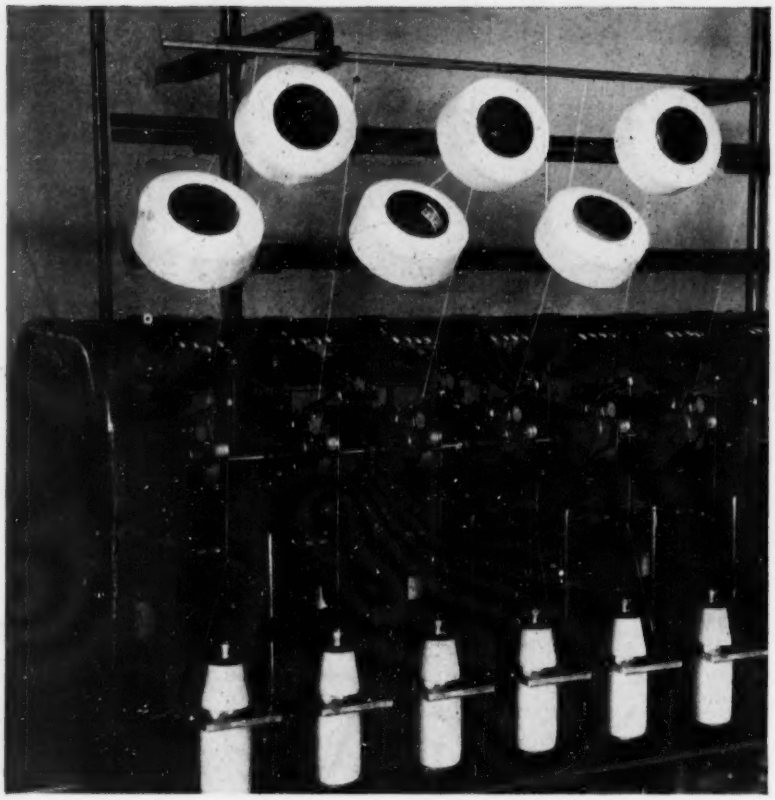
The operational scope of the Universal Model 10 Ring Twister is practically unlimited. It twists single ends or combines from 2 to 12 ends, depending on the yarn, with a twist range of ½ to 55 turns per inch. Spindle speeds run from 5000 to 7500 rpm, building packages up to two pounds. Delivery may be from cones, cheeses, cakes, pirns, spools, bobbins or tubes. Twister packages may be straight wind, taper top, or double tapered.

Many Advanced Features

The Universal Model 10 Ring Twister's automatic stop motion for each end in the ply means that spindle and feed roll are instantly stopped at any break or run-out. Drop ply cannot get into the package, roller laps are eliminated and ends are tied in the singles before twist is inserted — resulting in smaller, less troublesome knots.

Other features that assure trouble-free performance and uniform twist include: constant free delivery; constant yarn speed delivered by feed rolls; accurate tensioning; one endless, lapless belt for uniform spindle speed; and elimination of knee brakes.

*Registered Trade Mark for Du Pont polyester fiber.



Creels on the Model 10 Ring Twister are easily adapted to carry the 3-pound cheeses of Dacron filament yarn. This closeup shows six spindles twisting single ends from Dacron cheeses.

Production Boosted by the Unirail® Uptwister

Where uptwisting of Dacron filament is the objective, excellent results are possible by teaming up the Universal Model 200 Redraw with the Universal Unirail Uptwister. On the first machine the Dacron cheeses are redrawn onto a bobbin. The twist is then inserted on the Unirail Headless Package Uptwister. Both machines are capable of handling up to 2-pound packages.

The high speed of the Unirail permits the twist to be inserted at a rate limited only by the characteristics of the yarn. This extra-fast, cost-saving performance comes from a combination of design features found only in this ultra-modern machine.

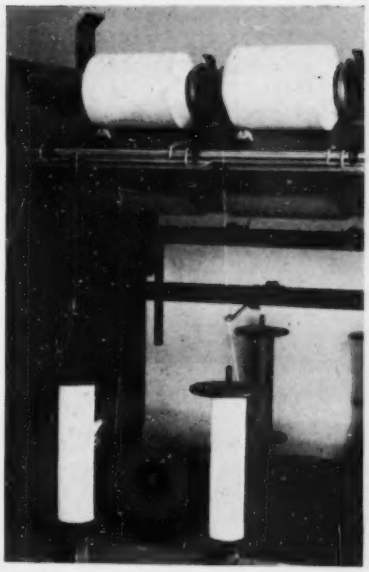
For example: straighter thread line from delivery to take-up package, self-threading guide, quick-threading centering eye and simple automatic transfer tailing device. The Headless Package Unirail also includes an entirely new hinged arbor which enables the operator to doff a package without touching the yarn. This cuts donning and doffing

time up to 30% and also helps protect yarn quality. The stop motion also helps protect quality by lifting the package off take-up roll when an end break or runout occurs.

Big Power Savings with the Uniflex Spindle

Another big factor in Unirail efficiency is the Uniflex Spindle, standard equipment on this machine. Extensive field-testing of Uniflex Spindles against plain bearing spindles — under exactly similar conditions — show that Uniflex Spindles can be counted on for power savings averaging 15% and running up to 36%.

That's because the greatly advanced Uniflex design reduces bearing loads and vibration, eliminates oil splash and cuts down the need for oiling and other maintenance. Results: safe spindle speeds up to 16,000 rpm, cleaner yarn and lower cost operation. On old uptwisters, systematic replacement with new Uniflex Spindles assures the same worthwhile savings.



A Universal Unirail Uptwister, showing Headless Package Take-Up.

Most Flexible Winder Made — The Universal No. 50

The Universal No. 50 Winding Machine builds the widest variety of precision-wound packages of natural and synthetic yarns.

Shipping cones built on the No. 50 contain the greatest weight of yarn in a given space. The precise regularity of this winding is attractive in appearance and is preferred for putting up compact sales yarn packages.

Dye packages wound with the soft package attachment are of the proper low density for uniform dyeing.

Bobbin Spools produced on the No. 50 provide compactly wound thread packages for overend delivery to sewing machines.

This most flexible of all winding machines not only winds a major percentage of the world's coned synthetic yarn but is also used by all leading thread mills. In Fig. 1 and Fig. 2 a few of the very many different winding potentialities of the Model 50 are shown on demonstration machines.

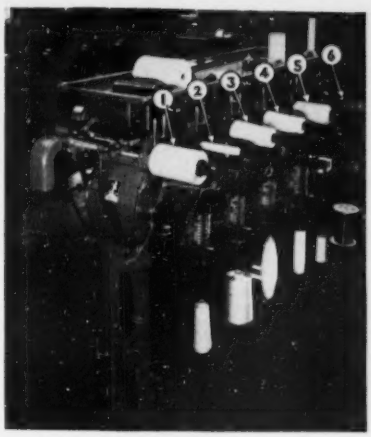


Fig. 1

Rayon yarn from shipping cones is being wound onto a 1⅝" dye tube on spindle 1 and onto a ⅝" dye tube on spindle 2. The soft package attachment is being used on both spindles.

Spindle 3 is winding 210 denier nylon from a pirn onto a 3°30′ shipping cone.

Spindle 4 is winding glass yarn from a tapered twister pirn onto a 3°30′ shipping cone.

On spindle 5, rayon crepe yarn is being wound from a twister bobbin onto a 1⅞" tube that can be used as a supply to a warper creel or filling winder. With the magnetension being used here, crepe yarn can be wound without backing up the twist.

Spindle 6 is winding Saran from a bobbin onto a king spool that can be used as a supply to a stitching operation or in a warping creel or filling winder.

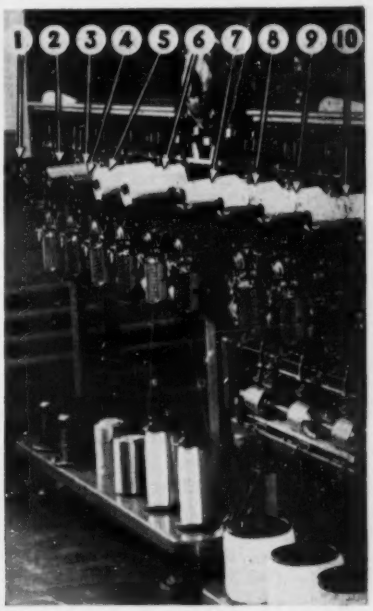


Fig. 2

Spindles 1 and 2 are winding dyed rayon yarn from cakes onto 3°30′ shipping cones.

Spindles 3 and 4 are winding viscose yarn from dye packages onto 3°30′ shipping cones.

Spindles 5 and 6 are winding rayon yarn from spinning bobbins onto 3°30′ shipping cones.

Spindles 7 to 10, inclusive, are all winding nylon yarn onto pineapple cones — a 3°51′ cone on spindle 7 and regular 3°30′ cones on the remaining spindles. All four spindles are winding from sizing tubes produced on the #250B Sizing Machine, and emulsion is being applied to the yarn during winding.

23.3.15

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Winding and Twisting Machinery for Natural and Synthetic Yarns

Now! Medley's Adjustable Guage Twister
for LARGER PACKAGES...
KNOT-FREE YARNS *at higher speeds*

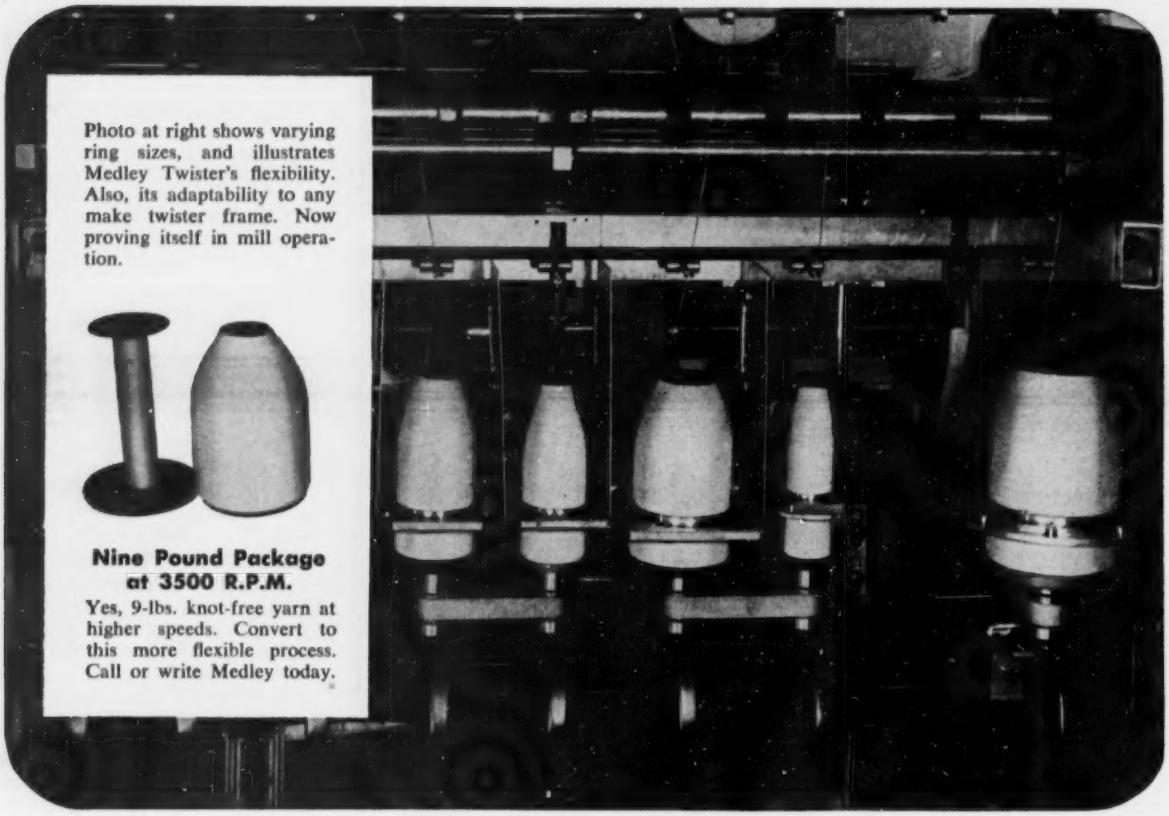

Photo at right shows varying ring sizes, and illustrates Medley Twister's flexibility. Also, its adaptability to any make twister frame. Now proving itself in mill operation.

Nine Pound Package at 3500 R.P.M.

Yes, 9-lbs. knot-free yarn at higher speeds. Convert to this more flexible process. Call or write Medley today.

- **Adjustable Guage**
- **Adjustable Traverse—eight to 12 inches maximum**
- **Exact ring concentricity improves quality**
- **Amazing reduction in doffing and donning costs**
- **Reduces winding costs**
- **Adaptable to your frames, regardless of make**
- **Highly competitive with latest model twisters—some features that newest models lack**

NOW, WITHIN REASONABLE LIMITS, you can produce a size yarn package to your customer's specifications at speeds never before attained (up to 50% higher Traveler speeds). Adjustable guage features allow twisting elements to be positioned lengthwise of the frame at any point. Moveable spindle rail allows adjustment to any popular traverse. New design, high strength side rails provide adequate rigidity. And the simple adjustment to exact ring-to-spindle concentricity assures smooth yarn flow and an improved quality. Full length separators are adjustable to suit traverse required.

You need no longer be confined to a fixed guage, or size and type of yarn. The Medley Twister will adapt your frames to twist yarns of various types and sizes, producing a package to any reasonable weight specification. Proved in mill operation.

Investigate today. Write or call Medley. See this *newest* innovation in twisters.

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and greatest
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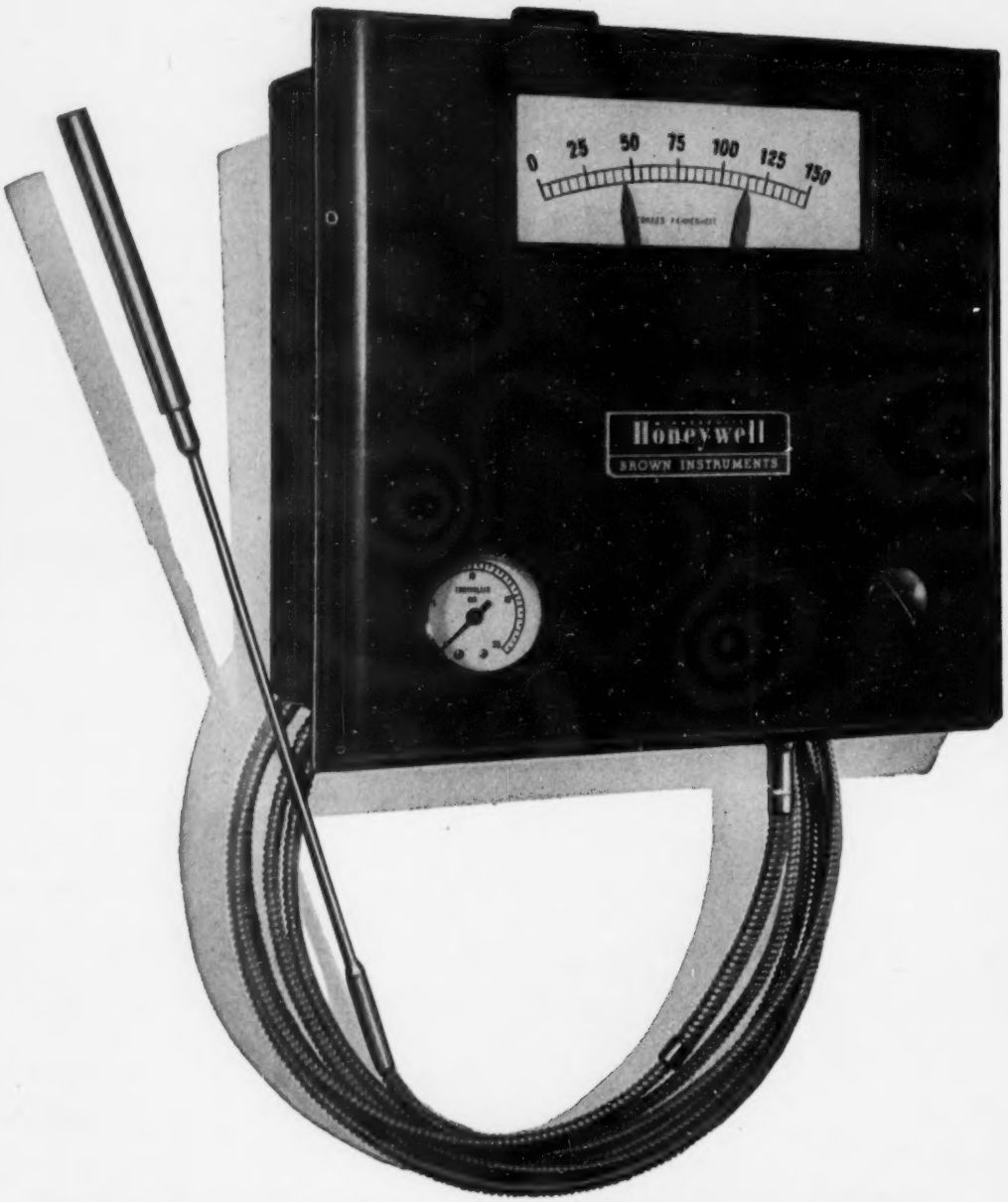


Look at these features of the Model 604P5 Thermometer Controller

GOOD READABILITY:
indicates temperature on 4½" scale.

QUICK CONTROL CHECK:
readily visible red control pointer and black indicating pointer.

CONTROL AIR CHECK:
front-mounted gauge indicates air pressure to control valve.

VARIETY OF CONTROL:
direct or reverse acting pneumatic control —either on-off or proportional action.

SELECTION OF RANGES:
23 different temperature ranges, up to 1000°F., in Fahrenheit and Centigrade calibrations, for vapor and mercury bulb systems.

COMPACT DESIGN:
die cast aluminum case 11" x 11", 4" deep; gasketed black plastic cover; practically splashproof. Interchangeable flush or surface mounting on panels of any thickness.

SIMPLE SETTING:
external knob for adjusting control point.

A new, low-cost temperature controller *from Honeywell*

MANY processes which now use manual control can utilize the advantages of automatic operation at unusually low cost—by employing the new Brown Pneumatic Thermometer Controller.

For the scores of ovens, vats, dryers and similar equipment which need only temperature indication and relatively simple control, this new instrument affords excellent control performance. It's fast, accurate . . . and simple in design. It takes so little space that it can fit readily into existing equipment or on panels.

Instrument and thermal system are complete in one package. The set point is easily adjusted by means of an external knob. The selection of control actions, ranges and types of thermometer bulbs covers literally hundreds of control applications throughout industry.

In spite of its low price, this controller is a precision-built instrument which incorporates many of the long-lasting, high-quality components used in other Honeywell products. And it's backed by Honeywell's nationwide service organization, strategically located in more than 90 principal cities of the United States and Canada.

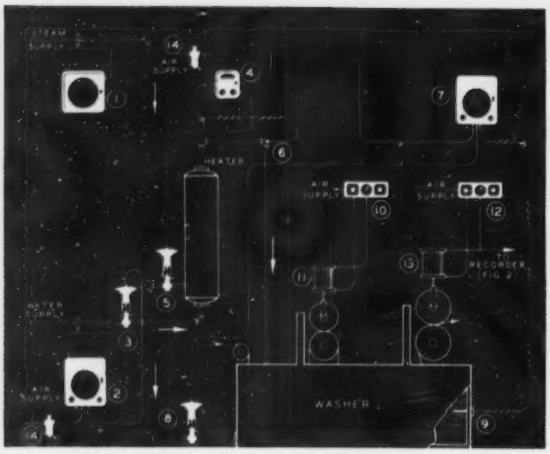
Our local sales engineer will be glad to discuss how this new controller can be applied to your own temperature problems. Call him today . . . he is as near as your phone.

MINNEAPOLIS-HONEYWELL REGULATOR CO., *Industrial Division*, 4509, Wayne Ave., Philadelphia 44, Pa.

● **REFERENCE DATA: Write for your copy of new Bulletin 6401.**

MINNEAPOLIS **Honeywell**
BROWN INSTRUMENTS
First in Controls

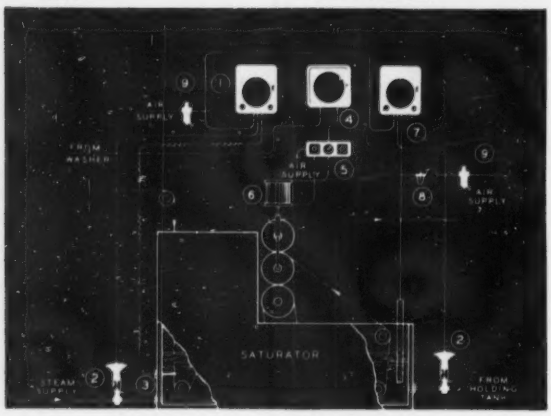
For Continuous Bleaching Control



1. Model 4010 Steam Flow Recorder
2. Model 64110 Water Flow Controller
4. Model 3700 Temperature Controller
7. Model 63110 Temperature Controller
3-5-8. No. 138 Control Valves
10-12. No. 99-19 Roll Loading Units
14. No. 74 Air Set

AT THE WASHER

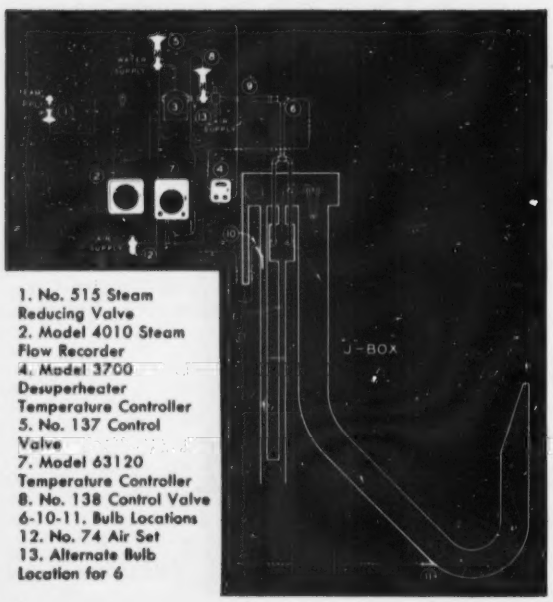
A Masoneilan Washer Control System automatically controls flow and temperature of steam and water — and records them. Squeeze roll loading controls three stages — "load," "lift" and "off" or dead-weight of roll.



1. Model 63110 Temperature Controller
2. No. 138 Control Valve
4. Model 2020 Pressure Recorder
5. No. 99-19 Roll Loading Unit
7. Model 62110 Liquid Level Controller
9. No. 74 Air Set

AT THE SATURATOR

Masoneilan Saturator Control System maintains temperature and level with reliable accuracy. Furnishes permanent records. Roll loading unit controls and records pneumatic squeeze roll loading pressure.



1. No. 515 Steam Reducing Valve
2. Model 4010 Steam Flow Recorder
4. Model 3700 Desuperheater Temperature Controller
5. No. 137 Control Valve
7. Model 63120 Temperature Controller
8. No. 138 Control Valve
6-10-11. Bulb Locations
12. No. 74 Air Set
13. Alternate Bulb Location for 6

AT THE J-BOX

Masoneilan Temperature Controls for open width or rope type J-Box assure rapid, uniform heating to required temperature with minimum steam consumption — record steam flow and temperature. Optional — Steam-Air Mixer, to condition steam as it enters heater tubes.

Be doubly sure . . .
USE MASONEILAN CONTROLS
. . . for Accuracy and Dependability!

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The Reliance V★S Drive Jr., is an All-Electric Adjustable-Speed Drive that eliminates mechanical gearboxes, clutches and variable-pitch cone pulleys.

It is bringing the benefits of smooth, shockless operation . . . powerful starting . . . wide speed ranges . . . fast reversing . . . quick stopping . . . to users of small machinery in many industries.

Progressive machinery builders, too, are building these desirable sales features into their machines with the V★S Jr. To step ahead . . . and keep ahead...of competition, find out today what the V★S Jr. can do on *your* application! D-1405B

SAVES YOU MONEY 10 WAYS:

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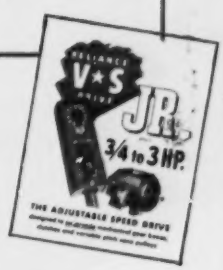
- Saves space
- Increases safety
- Handles more jobs
- Reduces "down time"
- Simplifies machine design
- Reduces operator fatigue
- Cuts changeover time
- Operates from a-c.



Get the Facts! Ask for Bulletin D-2102. It describes and illustrates features, applications, components and operation; dimensions and characteristics also are included.

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Mr. C. J. Lahanas
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Dear Mr. Lahanas:

Yes, we have several Strobotacs in our plants. They are constantly being used in various departments every day of the week to insure the quality of the many different types of yarns we process.

We have over twenty-five thousand spindles running at speeds of 8000 to 12000 rpm, and to maintain these speeds and find discrepancies or variations, we use the Strobotac on our daily patrol. It immediately reveals lagging speeds, which are corrected at once to insure proper production and quality.

By using this instrument on our downtwisters, we can stop motion of the ring travelers and actually see the behavior of the traveler under speeds and yarn tensions.

We feel the Strobotac is a must in our business.

Very truly yours,

LIBERTY THROWING CO., INC.

E. J. Chernesky

E. J. Chernesky
Plant Engineer

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GENERAL RADIO Company

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Type 631-BL STROBOTAC

"stops" or "slows" motion of moving parts and mechanisms operating at any speed from 60 to 100,000 rpm . . . . . .

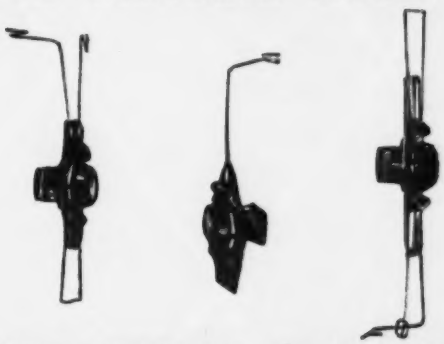
An ideal electrical tachometer—requires no physical connection to the device whose speed is being measured—portable and compact—operates from standard 115-volt, 60-cycle a-c lines—inaccessible places are readily reached for studying motion or measuring speed—**Price only $150**

Write for the STROBOSCOPE Bulletin

How You Can Produce

HELANCA YARNS

AT PROFITABLE SPEED!



WITH SPECIAL HERR LIGHTWEIGHT FLYERS

Just as others are doing, you can make those famous HELANCA S-t-r-e-t-c-h nylon yarns at profitable speeds! Special Herr flyers have been designed to install the twist and special flyers to back the twist out. Increased speeds are possible because of the lightweight construction and nylon bearings which balance the action of the yarn and reduce the bearing contact on the spindle. Perfect control of twist is provided, both when installing and backing out.

WITH HERR CONICAL RINGS

Herr Conical Rings have controlled lubrication, which means clean yarn . . . ordinarily a difficult attainment when handling spongy yarns such as Helanca. Herr Conical Rings are also popular because they stop yarn breakage, permit heavier doffs and produce smoother yarn.

Herr Flyers and Conical Rings are indeed the ideal combination for producing Helanca and other stretch yarns profitably!

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Not surprising when you realize that Powell makes more kinds of valves and has probably solved more valve problems than any other organization in the world. And this has been going on since 1846.

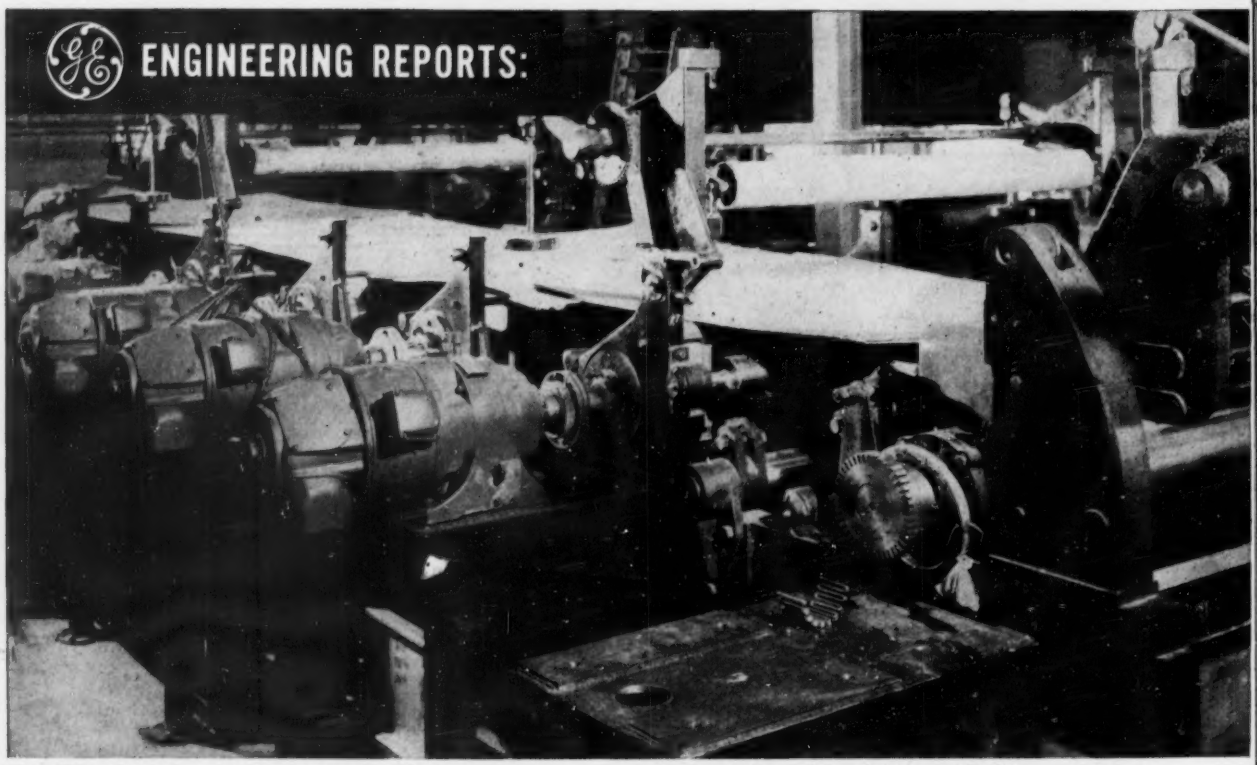
Wherever flow requires dependable control, there's the place for Powell Valves—available through distributors in principal cities. Made ⅛" to 30" and 125 pounds to 2500 pounds W. S. P. Bronze, iron, steel and corrosion resistant alloys. On problems, write direct to The Wm. Powell Company, Cincinnati 22, Ohio.

CONTROLS FOR THE LIFE LINES OF INDUSTRY

Powell Valves

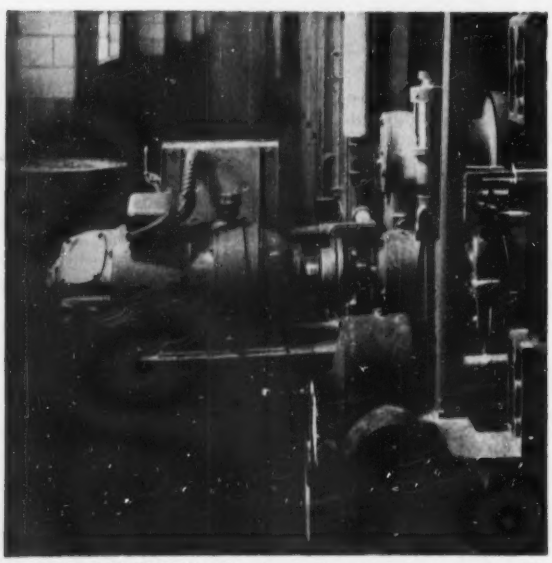
108th year

ENGINEERING REPORTS:



EASY INSTALLATION, SIMPLE MAINTENANCE are features of this multiple-motor dyeing range at Grace Bleachery. This construction view shows several of the new three-piece G-E gear-motors being positioned. Although G-E drives such as this will operate for a long time with only routine maintenance, motors may be removed without disengaging the gears.

G-E Packaged Range Drive steps up



EASY-TO-MAINTAIN, G-E three-piece gear-motor runs this starching operation on a plisse range. This motor is only one of the many types that G.E. manufactures for the textile industry. Others include: totally-enclosed, ball-bearing loom motors; open, lint-proof motors; vertical motors for twisters and many others to meet your special requirements.

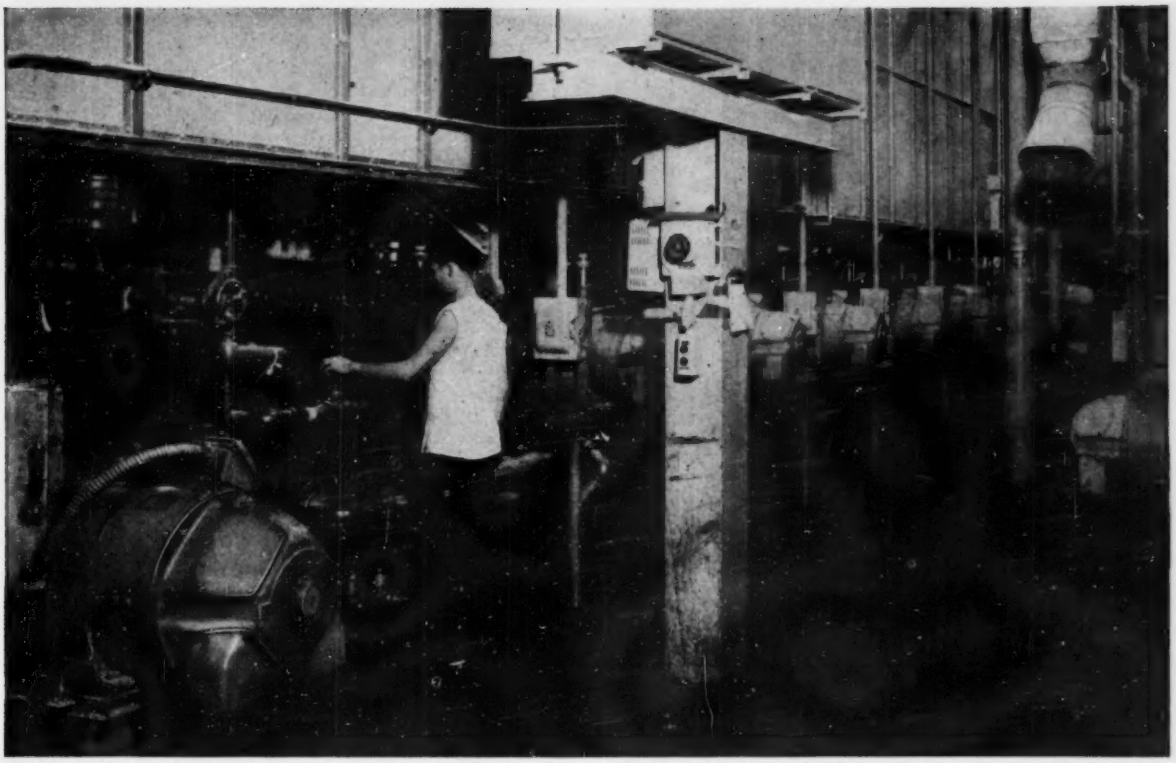
Compact drive gives Springs Cotton Mills' Grace Bleachery high speed finishing

Washing, drying, bleaching, mercerizing, dyeing—whatever your range operation may be—the General Electric packaged range drive can give you higher production per man-hour with lower maintenance costs.

Efficient co-ordination of the drive elements through centralized control is one of the factors making this increased output possible by providing accurate control of cloth tension at all operating speeds. This assures you maximum cloth uniformity with minimum supervision and thus with lower costs.

ONLY THREE STANDARD COMPONENTS make up the G-E adjustable-voltage drive system: the operator's finger-tip control station which can be installed in any convenient location; three-piece range-driving motors and their associated rheostats; and the packaged speed variator unit, containing motor-generator set and exciter, which can be located anywhere to conserve valuable range space.

YOU CAN CUT RANGE COSTS with the easy-to-maintain G-E three-piece gear-motors. They need no special mounting and may be easily removed for servicing without disconnecting the gears or removing the motor base from the foundation. Along with easy maintenance, sturdiness and smooth operation combine to assure you long life for the motor itself.



HIGH FINISHING OUTPUT of Spring Cotton Mills' Grace Bleachery is speeded by three-piece G-E gear-motors. Control system with master rheostat (on center post) provides finger-tip control of entire installation. Packaged power unit was easily located out of the range area. G.E. co-ordinated manufacture and delivery of nearly all drive equipment for this mill.

cloth-finishing output per man-hour

Check the advantages which the G-E packaged range drive can offer you:

SIMPLE TENSION CONTROL, accomplished with inexpensive compensating gates or other co-ordinating equipment

WIDE SPEED RANGES, available up to 8–1 without special equipment

CENTRALIZED CONTROL of range speed from a single location

SMOOTH, STEPLESS ACCELERATION AND DECELERATION with close speed control

EASY MAINTENANCE—motors may be removed for servicing without disengaging drive gears

DYNAMIC BRAKING for sudden stops and regenerative braking for controlled deceleration

YOU CAN PROFIT from other mills' experience. Mail coupon for additional details on G-E range drives or contact your nearest General Electric Apparatus Sales Office.

Mail this coupon for help in solving your range drive problems!

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Please send me without obligation your Bulletin GEA-5010 which gives the latest developments in G-E range drives.

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...for peak profits in your plants!

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Through constant research, specialized equipment and outstanding engineering, Bahnson offers the world's most complete line of industrial humidification equipment . . . including unit and central air-conditioning systems, and the latest in automatic air cleaners.

Put Bahnson in *your* plans . . . for more efficient, more profitable plants. Let Bahnson equipment work for you as it does in seventy countries around the world, and in 91 of the top 100 textile mills in the United States.

Yes! 91 OF THE TOP 100

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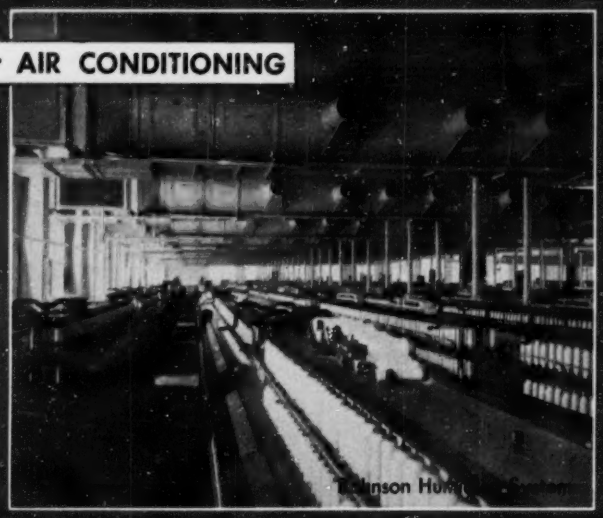
SEE OUR EXHIBIT
Booths 11-18 on the Stage
AMERICAN TEXTILE MACHINERY EXHIBITION
Atlantic City, N. J.—
April 26-30, 1954

for AIR CONDITIONING



for HUMIDIFICATION

Centrifugal Humidifier

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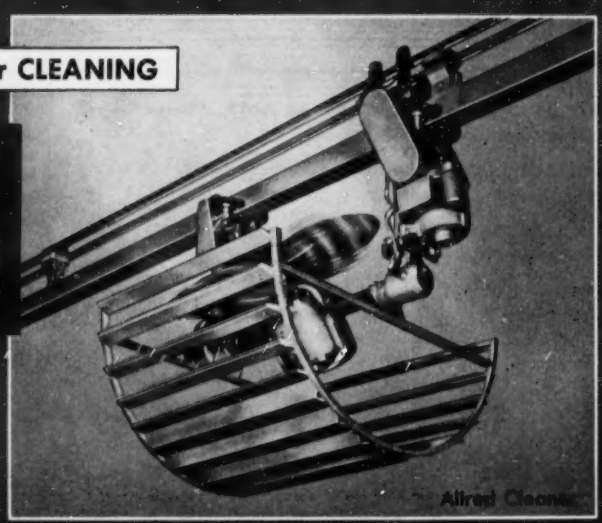

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Sure... these intricate parts can be machined out of solid metal. *That's the expensive way.*

But... these **FINISHED MACHINE PARTS** are being made by **OILITE** *at a Fraction of the Cost.*

Oilite Finished Machine Parts serve the same purpose as conventional "machined" parts. Their performance is just as good, often better, because they can be self-lubricating and made to closer precision tolerances.

Recent achievements by Oilite Research have materially broadened the scope and application of Oilite — Products of Metal Powders.

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Custom-made SHUTTLES

Shown below are Watson-Williams shuttles for Draper Looms

L MODEL
18½" long
for 8¾" quill

E MODEL
16½" long
for 8¾" quill

E MODEL
15¾" long
for 8" quill

X2 MODEL
16½" long
for 8¾" quill

XD MODEL
15¾" long
for 7⅞" quill

SINCE 1830
The Shuttle People

Watson-Williams specializes in custom-made shuttles, manufactured to your exact requirements, both for C & K and Draper Looms. Among the scores of shuttle improvements by the Shuttle People, one of the most important to your weaving today is the Blanchard Quarter Turn Tension Eye Locked Adjusting Screw.

Your visit will be welcomed at our Booths 582, 583, 584 and 584AA American Textile Machinery Exhibition, Atlantic City, April 26 - 30.

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Why V-Belts with CONCAVE SIDES Last Longer!

(U.S. PAT. NO. 1813698)

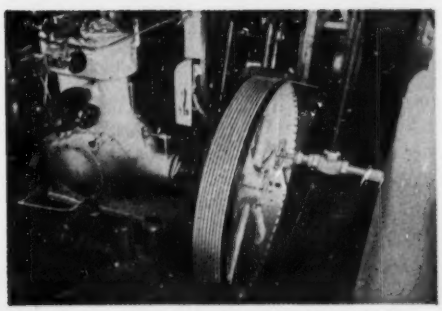
Prove this yourself!

Take any *straight-sided* V-Belt (Fig. 1). Bend it—as it bends in going around a pulley. The sides will at once *bulge out* (Fig. 1-A). Clearly, those bulging sides will press *unevenly* against the V-pulley—and this causes *extra wear* at the points shown by the arrows (Fig. 1-A).

Now bend a Gates Vulco Rope with CONCAVE SIDES (Fig. 2)

Instead of *bulging*, the precisely engineered CONCAVE SIDES merely *fill out* to *fit exactly* in the sheave groove (Fig. 2-A). The sides press *evenly* against the V-pulley. All wear is distributed *uniformly* across the *full width* of the Gates Vulco Rope—and this means *longer* belt life and *lower belt costs* for you!

When you buy V-Belts, be sure to get the V-Belt with the CONCAVE Sides—the Gates Vulco Rope!



Typical Gates Vulco Rope Drive—the Gates V-Belts are built with Concave Sides to insure longer belt wear.

Gates VULCO ROPE DRIVES

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Gates Engineering Offices and Jobber Stocks are located in all industrial centers of the United States and in 71 foreign countries.

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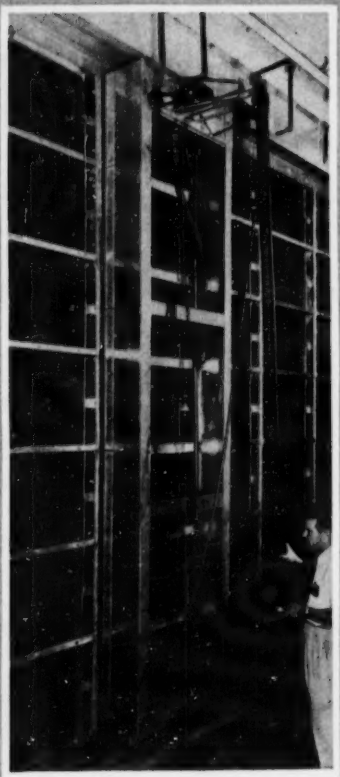
WESTINGHOUSE PRECIPITRON CUTS SMOKE...SOOT... SAVES JUDSON MONEY

Formerly yarn was streaky and smudgy at Judson Mills, and much of it had to be sold as dark shades rather than as premium-commanding light or pastel shades. To complicate things, light shades produced in winter for the spring and summer markets were getting the full effect of all the smoke and soot thrown into the air by nearby factories and residences.

But Judson began engineering these dirt losses right out of their mill in 1940 with PRECIPITRON, the electronic air cleaner. Their first installation was so successful that they have since added over 1,000,000 cfm capacity. Now the bulk of their production is in the light shades.

Let air cleaning, air conditioning or air handling put air to work for you. Call your Westinghouse-Sturtevant office, or write Westinghouse Electric Corporation, Sturtevant Division, Hyde Park, Boston 36, Mass.

Visit our Booth No. 95 at the American Textile Machinery Exposition in Atlantic City.

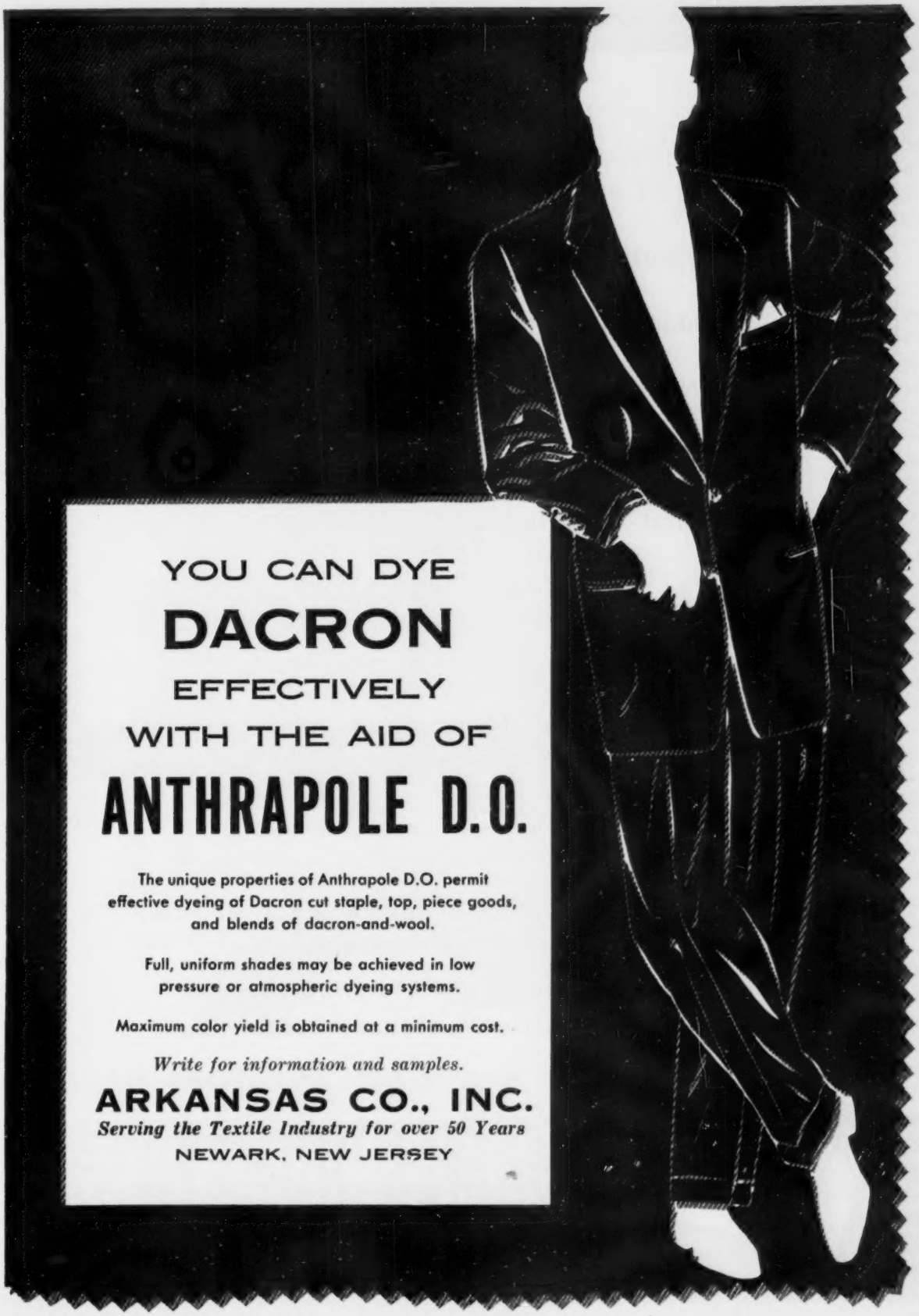


Judson Mill's PRECIPITRON units with semi-automatic washer not only give them top air cleaning efficiency, they also simplify the dirt disposal problem. Washer boxes automatically flush dirt off collector plates, leave unit ready for next cycle.

WESTINGHOUSE AIR HANDLING

J-80386

YOU CAN BE SURE...IF IT'S Westinghouse



YOU CAN DYE

DACRON

EFFECTIVELY

WITH THE AID OF

ANTHRAPOLE D.O.

The unique properties of Anthrapole D.O. permit effective dyeing of Dacron cut staple, top, piece goods, and blends of dacron-and-wool.

Full, uniform shades may be achieved in low pressure or atmospheric dyeing systems.

Maximum color yield is obtained at a minimum cost.

Write for information and samples.

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Most of us dislike changes. We oppose them. Every improvement ever made, was made reluctantly. Nothing new is considered practical or possible until someone with broader vision than our own, does the things that "can't be done"--gets better results by methods that "won't work".

At your request, we will be glad to send you a copy of the above suitable for framing.

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Modern Textile Finishing Machinery at

BOOTHS 113 & 114 and 214 THROUGH 238
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plus production
+ efficient operation of modern equipment
+ less down time of equipment
+ quick, easy repair ... rapid parts delivery

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MACHINE COMPANY
NORTH ADAMS, MASSACHUSETTS FOUNDED 1847

BUILT BY HUNTER ... IT'S DEPENDABLE
JAMES HUNTER MACHINE CO. Hunter NORTH ADAMS MASS.

"Only minutes ago we had a fire!"

"It's all over now, but we had quite a scare. The whole place might have burned down if this fire extinguisher hadn't been handy. Funny thing is I never thought *I'd* turn out to be a fireman."

Nobody ever thinks he'll have a fire. That's why it's so important to be prepared with a battery of Kidde Dry Chemical Extinguishers. Just pick up . . . point the horn . . . and pull the trigger of a Kidde Portable. Instantly, the threatened area is blanketed with a cloud of dry chemical. Surface fires in textiles are knocked down quickly. Fires in burning liquids are extinguished without splashing.

Remember . . . for extra speed, extra efficiency and safety, insist on Kidde Dry Chemical Portables.

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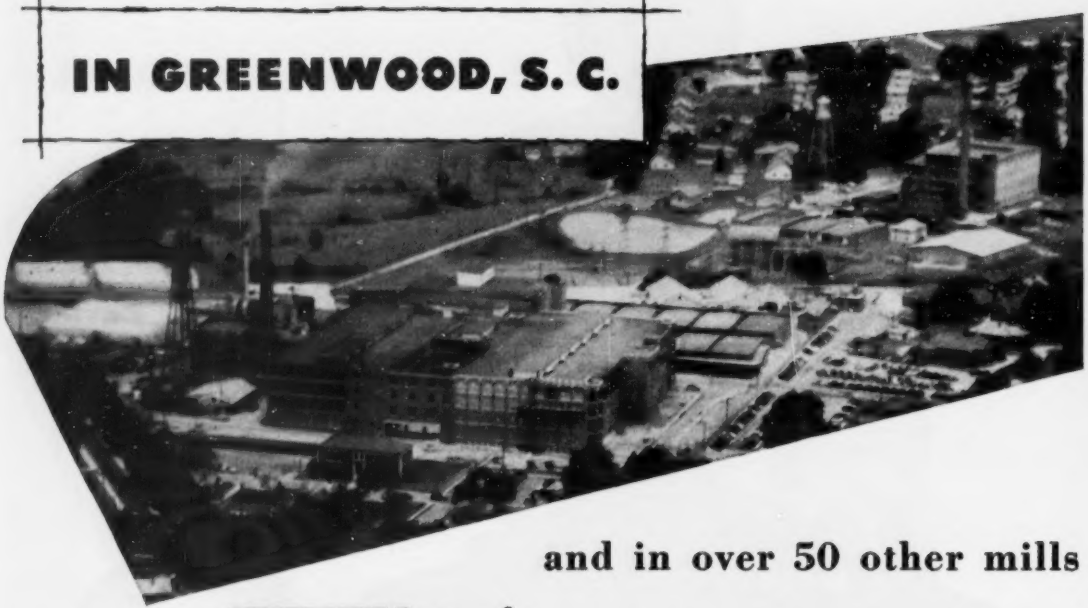
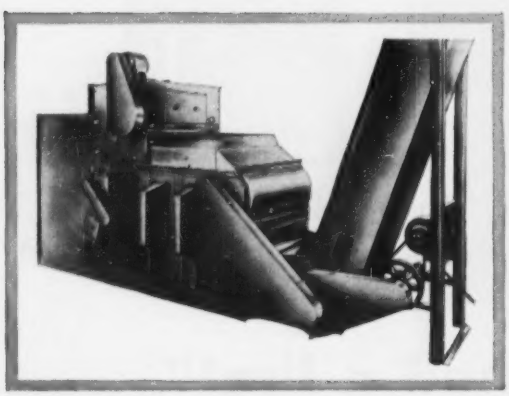


and in over 50 other mills

It's the *FiberMeter*® Automatic Blending System

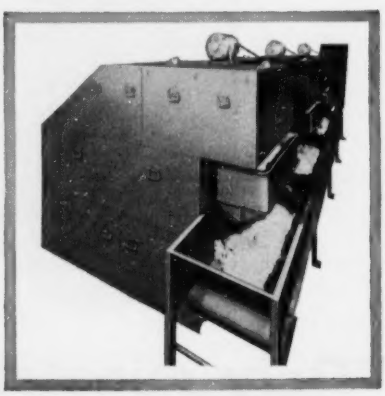
for *Accurate Blending*

and the *UniTint* for *Uniform Tinting*



No finer testimony could be asked for the recognized leadership of Fiber Meter Automatic Blending and Unitint Tinting than their universal adoption by the great mills in Greenwood, S.C. as well as in over 50 others in the United States, Canada and Europe.

The hundreds of thousands of pounds of fibers being blended and tinted daily in these plants provide effective evidence of the economy, accuracy and dependability of this machinery.



TEXTILE MACHINERY EXHIBITION — ATLANTIC CITY — APRIL 26 TO MAY 1, 1954 — AMERICAN ASSOCIATION

See these machines
BOOTH 601

TEXTILE EQUIPMENT CORPORATION
SUBSIDIARY OF W. D. DODENHOFF CO., INC.
GREENVILLE, SOUTH CAROLINA

SEE PROFITS BEING PRODUCED!

Watch these new Warner & Swaseys in action at the American Textile Machinery Exhibition

ATLANTIC CITY (APRIL 26 THROUGH 30)

Be sure to visit the WARNER & SWASEY EXHIBIT BOOTH NO. 50
WARNER & SWASEY-SULZER WEAVING MACHINE
For lower costs and increased production
WARNER & SWASEY PIN DRAFTER®
New high speed Pin Drafters
for greater adaptability ...higher production
WE'LL BE LOOKING FOR YOU!
WARNER & SWASEY-PACIFIC CONVERTER
Improved Converter
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See A & G DRYING AND VENTILATING EQUIPMENT at

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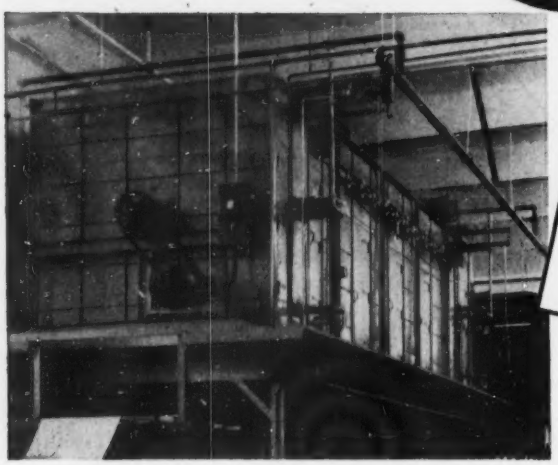
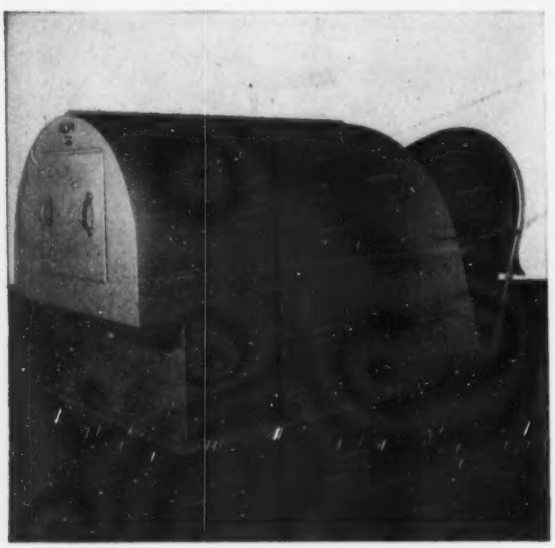


VAPOR DRYER: We are showing a gas fired unit of our well known roll type dryer with all of the latest improvements.



ROOF FAN: We are showing one of our ventilating units that can be mounted on the roof and throw the heat and vapor up and away from supply inlets.

The Choice of Leading Mills

The two A & G units illustrated herewith will be shown at the American Textile Machinery Exhibition at Atlantic City, April 26 through 30 — booth 78 on the main floor and booths 840-842 and 849-851 on the second floor.

This equipment has consistently been the choice of leading mills because it is tried and proven. It has been continuously developed and perfected over a long period of years.

Be sure to visit us and learn about the important features of this and other A & G equipment.

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BOOTHS 339—340

Atlantic City, New Jersey

APRIL 26 - 30, 1954

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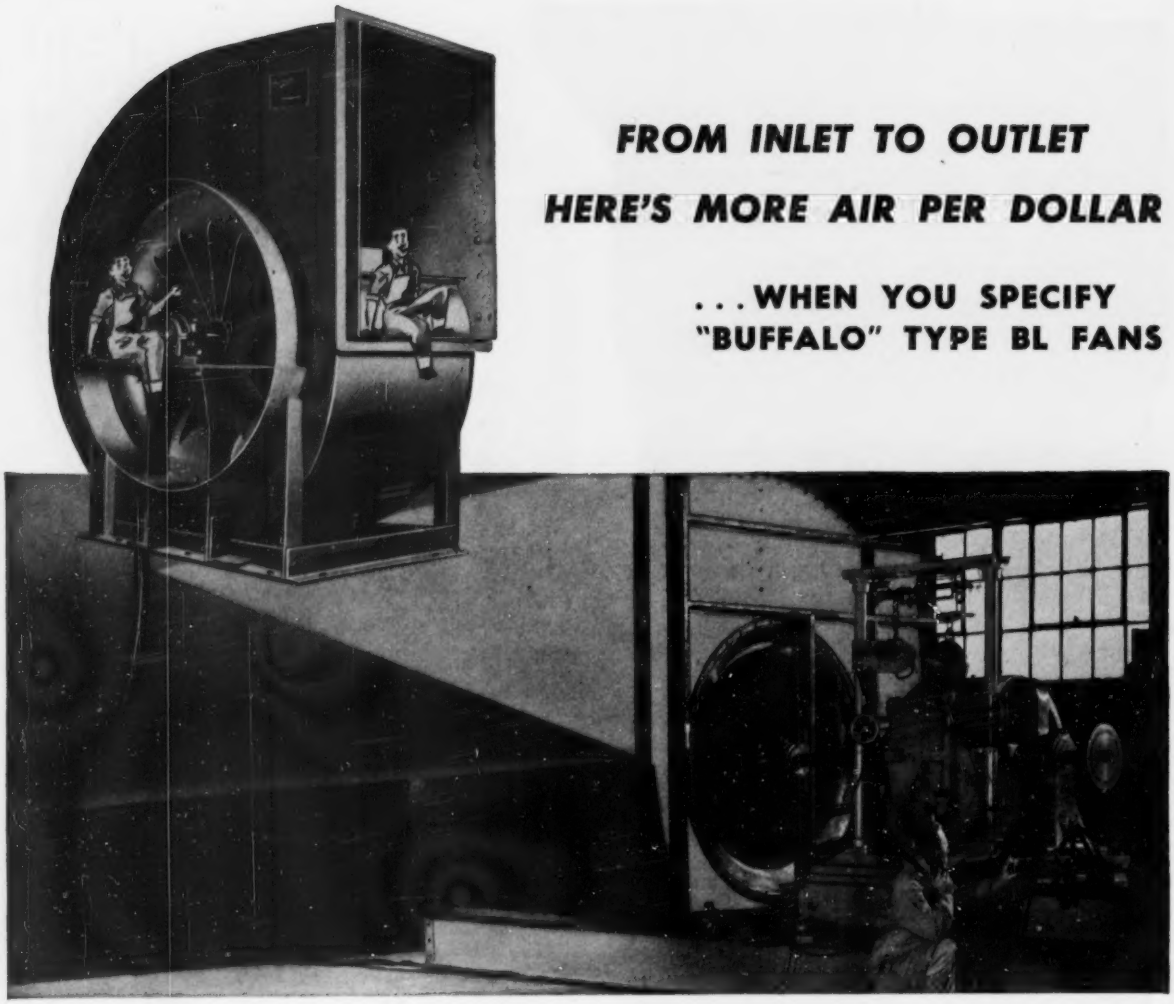

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HERE'S MORE AIR PER DOLLAR

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Even before incoming air reaches the wheel of the "Buffalo" BL Fan, it is guided in the most efficient path. The inlet bell is smoothly curved for absolute minimum friction; while the welded-on stationary inlet vanes reduce turbulance and assure rated air delivery even if inlet conditions are unfavorable. The "Buffalo" inlet is one reason why "Buffalo" air-moving costs are low.

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Besides these and other features, there is an intangible in all "Buffalo" fans that has always made for high satisfaction. We call it the "Q" factor, or built-in quality which provides long life and freedom from trouble. This is the sum total of the 77 years of "Buffalo" experience and know-how that goes into every fan to leave our plant.

For further details on "Buffalo" Type BL Fans, write for new Engineering Bulletin F-100

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PROCTOR EXHIBIT
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You'll see this full scale equipment in operation.

1. The New Proctor Synthetic Card already making textile history by making it possible to produce fine yarn from stock in six steps.
2. An Entirely New Oscillating-Rotating Roll which opens new vistas for continuous fulling, washing, dyeing and dry finishing.
3. The New Proctor Preboarding Machine which will completely dry 46 dozen pairs of hosiery per hour and is priced at 15% to 20% less than other machines with a similar capacity.

You'll see large scale working models of

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9. Proctor Automatic Blending Systems in operation
10. The New Proctor Synthetic Card in operation

You'll learn about the latest developments in

11. The Redman Process for Shrinkage control of tubular knit fabrics
12. The New Proctor Continuous Bleach System for tubular knit fabrics
13. The Proctor Open-Width Steamer for woven fabrics
14. The New Proctor Loop Ager for Print Goods
15. The Proctor Multipass Airlay Dryer for fine Finishing
16. The New Proctor Hot Air Slasher Dryer
17. Proctor Equipment for Nylon Setting
18. The Proctor Impact Dryer for Fibrous Materials
19. The application of proper continuous drying equipment for dyed and latex backed rugs.
20. New Proctor equipment for reprocessing all types of natural and synthetic fibers.

and finally . . .

21. You'll have the opportunity to discuss your individual problems with the qualified Proctor representatives who will be in the booth all week!

Proctor & Schwartz, Inc.

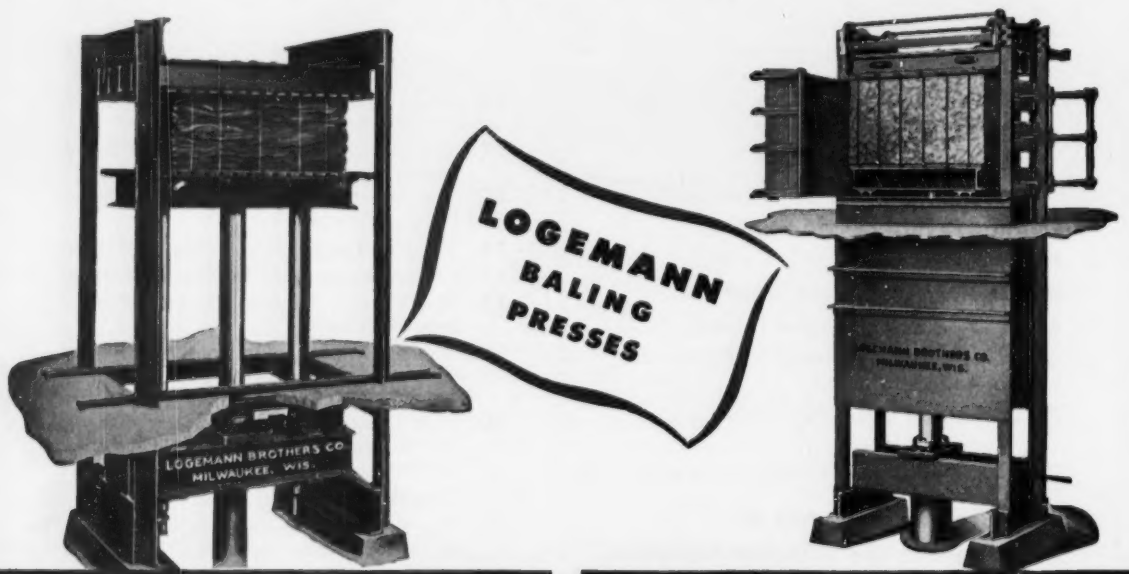
PHILADELPHIA 20, PA.

MAKE YOUR BALING A *Profitable* OPERATION *with a* LOGEMANN BALER

Tell Us Your Baling Problems

THAT'S the best way to get the right answers to low-cost time-saving baling. During our sixty years of building balers for the textile industry we've solved many a baling problem for factory owners. Our engineers know how to make baling operations pay their own way in time and labor-savings, in speedier, more reliable handling of bales, in lower maintenance costs. Many Logemann balers have been in profitable operation since the turn of the century—evidence of the ruggedness, durability, and long service life of Logemann baling presses.

In the interests of better baling operations in your factory, find out what Logemann balers can do for you. Tell us what your specific problem is. We'll gladly show you how it can be answered in terms of better bales at lower costs and make a specific recommendation based on your requirements. Write for information today.



Open balers for finished goods may be hydraulic or power-driven. Give platen dimensions required, maximum height of pile to be compressed, number of bales per hour, when requesting information on open balers.

Box balers for waste may be obtained in either the hydraulic or power-driven type. Mention the kind of waste to be baled, how much in how many hours, the preferred size or weight of bale when inquiring about box balers.

LOGEMANN BROTHERS CO.

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The OK BRAND name is your assurance of

- ✱ *Highest quality*
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then use...

TEXTILE STARCHES

Technical Service Available!

Whatever your textile starch problems may be, we'd like to tackle 'em. You are invited to consult with Hubinger's expert technicians—without cost or obligation.

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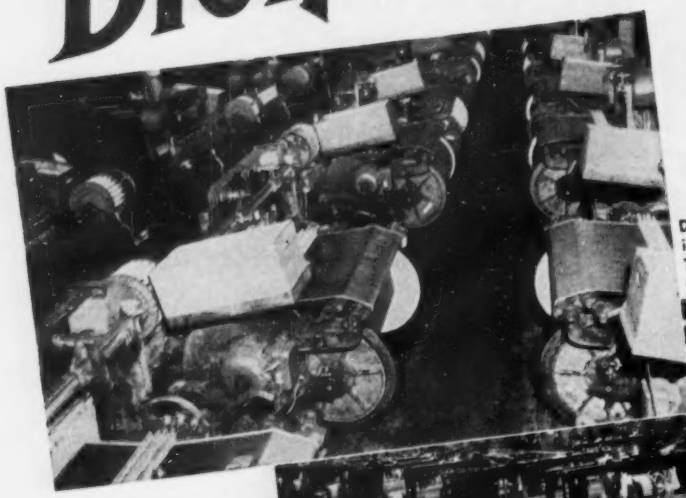
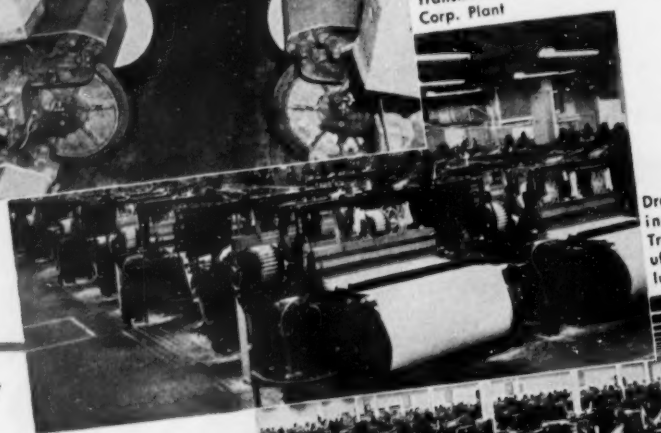
Diehl POWER TRANSMITTER

is assuring maximum weaving efficiency in leading mills

Thousands of Diehl Power Transmitters are operating DRAPER LOOMS in leading textile mills. Many have been in continuous operation for five years.



Draper X2 looms operating with Diehl Power Transmitters in Cone Mills Corp. Plant



Draper XD looms operating with Diehl Power Transmitters at Bibb Manufacturing Company, Columbus, Georgia.

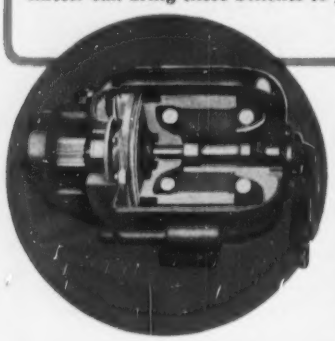
MILL MEN ARE ENTHUSIASTIC ABOUT THESE FEATURES

- "Stored energy" for smooth, rapid starts and positive picking.
- Precision braking.
- Minimum fluctuations of speed and motor current.
- Lower power consumption.
- Lower motor heat losses.
- Eliminates current regeneration.
- Simplicity and ease of maintenance.

. . . all of which adds up to increased mill production, improved quality of cloth, lowered operating costs and long, trouble-free service.

We will welcome an opportunity to tell you—without obligation—how the Diehl Power Transmitter can bring these benefits to you.

Draper XD looms operating with Diehl Power Transmitters at the Lyons Plant, Synthetic Division, M. Lowenstein and Sons.



This cutaway view illustrates the inverted construction of the power transmitter and shows the rotor which revolves around the outside of the stator on a hollow shaft—providing the essential inertia without the disadvantages of a separate fly wheel. Note the pinion driving shaft with attached clutch-plate which is shifted axially by simple lever at front end of motor, regulating clutch engagement pressure and providing controlled driving and braking action.

TEXTILE MACHINERY AMERICAN EXHIBITION ASSOCIATION ATLANTIC CITY APRIL 26-30 1954

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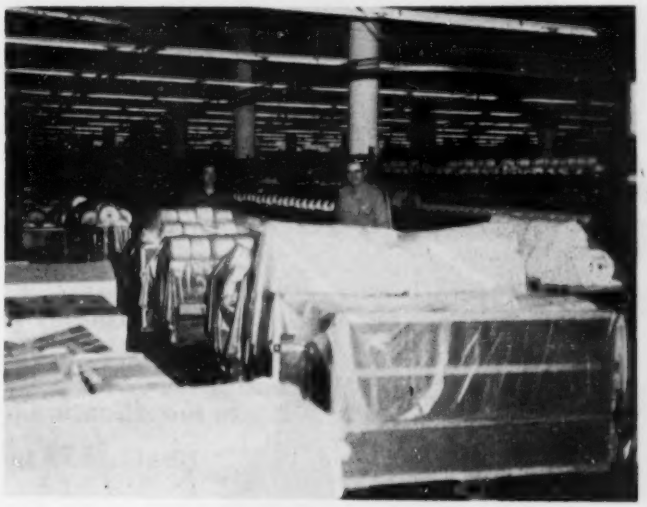
News IN BRIEF

Textile "Growing Pains." Complaints by customers against retail stores or against cleaning and laundering establishments often have their roots in the failure to understand the nature of the material and to exercise the caution indicated on the manufacturer's label. Leading authorities in the textile field regard these difficulties as "growing pains." However, they report good progress in overcoming these problems through technological improvements, through more detailed instructions as to use, and in general, through increased experience on the part of all in this relatively new field of synthetics.—Arbitration News.

Tar Spots Diminish. The cotton industry's fight against "tar spots" was pushed vigorously in 1953. Evidence of favorable results was found recently when a spot check on five railroads revealed only about 16 to 18 per cent of cars were contaminated with tar, compared with 75 per cent in 1952.

Wool Combing Down South. The opinion has been expressed by mill men that with a wool combing plant in the South (TI for March, page 167) southern worsted mills will not only benefit by a saving in transportation costs but will be in a better position to secure delivery of top to their specifications.

New Textile Fiber? The French trade paper "L'Automobile" recently published a report about a new wonder textile fiber, which will find use in the manufacture of car tires. In order to prove the strength of this synthetic, a neck scarf of the fiber (called Meryl) was inserted in a cable and with it a one-ton car was lifted by crane. The scarf was revealed fully "wearable" after this test.



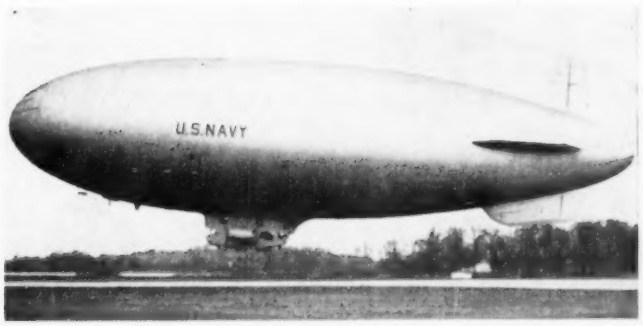
Protect Yarn from Fly

At the Arkray Plant of Textiles, Inc., Gastonia, N. C., all yarn standing in trucks awaiting transfer from one department to another is protected from fly and other sources of contamination by plastic sheets spread over the trucks.

Army, Careers, and Young Men. The failure of many young men to plan for careers in industry because they may be called up for military service soon has been termed a short-sighted policy by W. F. Patterson, director of the U. S. Department of Labor's Bureau of Apprenticeship. "Unless a young man has started his career as a craftsman by taking a job as an apprentice, or has made a fairly good start in some other occupation with a future, he has nothing worthwhile to come back to," Mr. Patterson said.

Concentrated Illumination for Spinning Frames. A twin beam yarn illuminator has been introduced in England by Meiners Optical Devices Ltd. The unit consists of a single lamp box connected by square section tubes to reflector heads fitted with mirrors and lenses through which horizontal beams of light are projected to illuminate the yarns above the spindles along the entire length of both sides of a spinning frame. The

*and a startling new piece of finishing machinery to be announced!



Neoprene Coated Cotton Airship

First of the Goodyear ZP4K class of airships for the U. S. Navy is shown at Wingfoot Lake field, near Akron, Ohio. The ships are being manufactured by the Goodyear Aircraft Corp. and are the most modern version of the intermediate range "K"-type airship used so effectively in anti-submarine warfare service by the U. S. Navy in World War II.

The ZP4K incorporates the Navy's latest developments adaptable to such aircraft for the purpose of locating and attacking enemy submarines in event of war. Metal parts of the airship are manufactured at Goodyear Aircraft's Akron factories and the envelopes are made in the Arizona factory of the corporation, at Litchfield Park. Gas capacity of the neoprene coated cotton envelope is 527,000 cubic feet of helium. A crew of eight men and officers will man each craft.

concentrated beam of light (3½ in. dia) brings out the yarns in bold relief, thus permitting immediate detection of broken ends.

Industrial Engineering Conference. "Creative Thinking and Techniques" will be the theme of the Ninth Annual Industrial Engineering Conference to be held in New York City, April 29-30, at the Statler Hotel. The conference will be co-sponsored by the Society for Advancement of Management and the American Society of Mechanical Engineers.

California Wants Textile Mills. Mayor Norris Poulson of Los Angeles recently disclosed that a group of leaders in Southern California's apparel industry is developing a program to bring cotton textile mills to the Los Angeles area. The group pointed out that, where textile mills have been in existence in California and have closed down, it was principally because of the lack of working capital and not because of unsound economics. The group has assembled information which calls attention to the "economically wasteful and expensive" practice of shipping California cotton to eastern and southern mills for weaving and then reshipping it back to California for use by the apparel trade, which, in turn, sends a considerable volume of its products again to the East.

Delta Kappa Phi Gets New Chapters. Delta Kappa Phi fraternity has formed an alumni chapter in Charlotte, N. C. This will be the Kappa alumni chapter. Members in the area may contact Harold E. Meunier, 2020 Lombardy Circle, Charlotte 3, N. C. An alumni chapter has also been formed in Atlanta, Ga. All alumni in the Atlanta area may contact Ernest N. Young, Jr. at 404 W. Ware Ave., East Point, Ga.

Fiber Measurements and Efficiency. "An Experiment With Minimum Fiber Measurements and Efficiency of Mill Operations" is the title of a booklet recently printed for Cotton Merchandising Research, The University of Texas, Austin, Texas. Labeled Research Report No. 23, the booklet pursues the question regarding the number of tests which give best results in proportion to the cost incurred in connection with the use of instrument testing. The test was conducted in the Brenham (Texas) Cotton Mill.

Coffee Promotes Nylons. Although Colonial Stores in Atlanta, Ga., are promoting coffee brands with purchase coupons for nylon stockings, both coffee and nylons get a boost from the deal. In the promotion, coupons are available for the purchase of a pair and spare of nylons for one dollar.

Textile Waste Manual. The stream pollution committee of the Philadelphia Section of the AATCC will cooperate with the national committee on stream pollution in the preparation of a Textile Trade Waste Manual.

Patented Boil-Off. Robbins Mills, Inc., has been granted Patent No. 2,612,770 for an improved boil-off

Going to the Atlantic City Show?

If you are, then you will want to remove the handy four-page folder tucked into the special section telling what you will see at the show (28-page color section beginning opposite page 152), and place it in your brief case now. It will make locating your supplier friends a mighty easy matter—either at the exhibition hall or in their hotels.

Come to Atlantic City

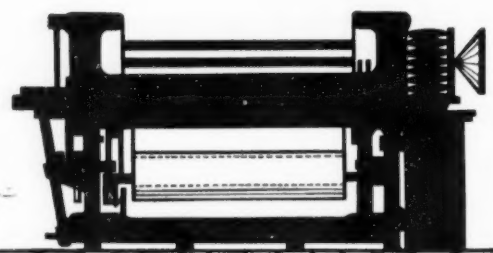
ARCHLESS LOOMS

ENCLOSED GEARING

NEW TAKE UPS and LET OFFS

ANTI-FRICTION BEARINGS

NEW DRIVE



You'll find the facts in Atlantic City– April 26-30

TEXTILE MACHINERY AMERICAN EXHIBITION ASSOCIATION
ATLANTIC CITY APRIL 26-30 1954

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THE WORLD'S LARGEST MANUFACTURER OF AUTOMATIC LOOMS

apparatus for textile fabrics, wherein means are provided for distending the preformed spaced loops of a fabric as it is progressed through the boil-off bath, thus insuring that the entire surface of the fabric is exposed to the boil-off liquid, and resulting in greater efficiency and economy of operation.

N. C. State Students Visit High Schools. A group of eleven students in the School of Textiles at N. C. State College have completed speaking engagements in nine of the State's high schools. The group has traveled a total of 2,200 miles and has addressed approximately 2,000 high school students during the current school year. Various high schools invited the students to visit them. The college students spoke on the value of college training.

AATCC Policy on Flammability. The executive committee on research, of AATCC, reported that it has been working closely with the National Cotton Council and the Federal Trade Commission on various points of the new Federal Flammability law, but pointed out that AATCC could not attempt to classify fabrics as "safe," "dangerous," or otherwise and could not police the industry as some thought the Association should do. AATCC has made available their test method to the government and to industry but cannot carry on a commercial testing program.

Removable Sleeves in Paris. Removable sleeves on knitted pullovers for men were recently to be seen in Paris as a novelty. The sleeves are placed or removed by means of zip fasteners so that the pullover can be worn also as a waistcoat. The zip fastener is thus worked into a double out edge so that it is not visible and also cannot rub.

Wool Fabrics Gained in 1953. Production by 75 firms of civilian woven wool apparel fabrics in the first 11 months of 1953 showed gains over the same period of 1952, according to the National Association of Wool Manufacturers. Until the third quarter of 1953, this increase in civilian goods had offset a sharp drop in military fabric production. Production of men's wear goods rose 28.5 per cent while women's wear was up 3.9 per cent. Military output dropped 76.8 per cent so that the total for all apparel fabrics, including military, was off 5.2 per cent.

Cotton Gains in Length, Strength. The American cotton crop gained six per cent in average fiber length and 6.7 per cent in strength during a recent 10-year period, according to the National Cotton Council. Also, there have

(Continued on page 281)

Some Recent Labor Rulings

The Monthly Labor Review, a Department of Labor publication, cites the following decisions involving labor disputes:

The National Labor Relations Board held that a company violated the Labor Management Relations Act when it refused to bargain with a local union which had been certified by the Board as the bargaining representative for employees in the company's plant.

A union which used a sound truck for the purpose of broadcasting to workers during the initial period of an election was found not to have violated the LMRA. Although the sound truck was parked at a distance of about 60 feet from the building in which the election was being conducted, it could be heard in all parts of the plant, including the voting area. However, it was used for only 20 minutes and was heard by only a small fraction of the voters. Upon the request of a representative of the board, the union ceased using the amplifiers.

A circuit court of appeals found an employer in violation of the LMRA in discharging an employee who had engaged in concerted activities for mutual aid and protection. The employee had solicited signatures on a petition which would have authorized him to attempt to recover individual claims for unpaid wages.

A U. S. district court held that a foreman who divided his time equally between supervisory and nonsupervisory work was a supervisor within the meaning of the LMRA. The court found that the foreman was a supervisor and excluded from the terms of the collective agreement but was not prohibited from performing production work.

The NLRB recently held that a local union was responsible for the acts of its president in threatening a nonstriker at his home. Further, the board held that the union president was responsible for the conduct of pickets.

A circuit court of appeals found that an application blank containing the question, "Are you a member of a union?" did not, in the absence of an additional showing of coercion, constitute a violation of the LMRA.

A circuit court of appeals held that an employer may not insist on individually negotiated contracts of employment under provisions of the Fair Labor Standards Act, when the LMRA requires collective bargaining.

A U. S. district court upheld an award by a jury of punitive damages to a coal company whose lease was terminated as a result of a secondary boycott by a union against the lessor.

The NLRB held that an employer violated the LMRA by signing a contract with one of two competing unions after a representation election had been directed by the board, thereby assisting the contracting union and preventing a free choice of bargaining representative by the employees.

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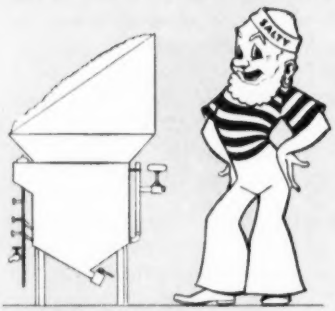


1954 A.D. NO TEST
(not needed with Lixate Brine)

AN EXECUTIVE Views

THE NEWS IN TEXTILES

Prepared by a man who is closely identified with the textile industry.

Too Many Spring Meetings?

IN THE spring a textile man's thoughts naturally turn to conventions. Prominent during the month of April are the meetings of the Cotton Manufacturers Association of Georgia at Boca Raton, Florida, of the American Cotton Manufacturers Institute, Inc., at New Orleans, and of the American Textile Machinery Exhibition in Atlantic City.

All this brings to mind a pet peeve of ours, and that is that there are too many textile meetings in the spring and perhaps not enough during other times of the year. This spring, for instance, meetings have been held or will be held by the following: Alabama Cotton Manufacturers Association; Cotton Manufacturers Association of Georgia; American Cotton Manufacturers Institute, Inc.; American Textile Machinery Exhibition; South Carolina Textile Manufacturers Association; the Northern Textile Association; and the Hosiery Industry Conference.

There may be others, but these are the ones that first come to our mind and the list is rather staggering.

We have our jobs at the mills, and we belong to state associations and also national associations; then too if we sell yarn, we like to go to the hosiery meeting, underwear men's meeting, etc. Going to several in a row takes us away from the mill for most too long.

Granted that the bylaws of some of these organizations call for meetings in specific months, and granted also that the problem of securing hotel accommodations is a serious one, it nevertheless seems entirely possible that some of these groups might be able to arrange their meetings during other times of the year. The problem, of course, would be to decide which organizations were going to change an arrangement which may have existed for many years.

Big things are promised at the machinery show and many textile men will be on hand to see what is latest, newest, and best.

But without any malice whatsoever, we would like to suggest to our friends, the textile machinery manufacturers, that their next show be scheduled for, say, September. One of the main points in having the exhibition is trying to show new and advanced machinery to textile executives, and if said executives are going to be completely exhausted and in the last stages of acute fatigue, it would seem the better part of valor for machinery manufacturers to select some other time of the year than the already crowded spring convention months.

Foreign Cotton

A friend of ours was telling us the other day that down in Mexico a huge new dam has been erected called the Falcon Dam, which is going to mean a great deal in the cultivation of cotton in that immediate area of Mexico. He tells us that approximately 600,000 acres have been irrigated as a result of the Falcon Dam and, by way of comparison, we might mention that this is about the same acreage as is planted in cotton in the entire state of North Carolina each year.

We also understand that because of Mexico's climate, these 600,000 acres bear two crops each year. The sound of all of this was rather ominous to us because we remembered that the price of American cotton is now considerably above the world market and that foreign mills looking for a bale or two here and there are likely to buy it where they can get the best cotton for the lowest price.

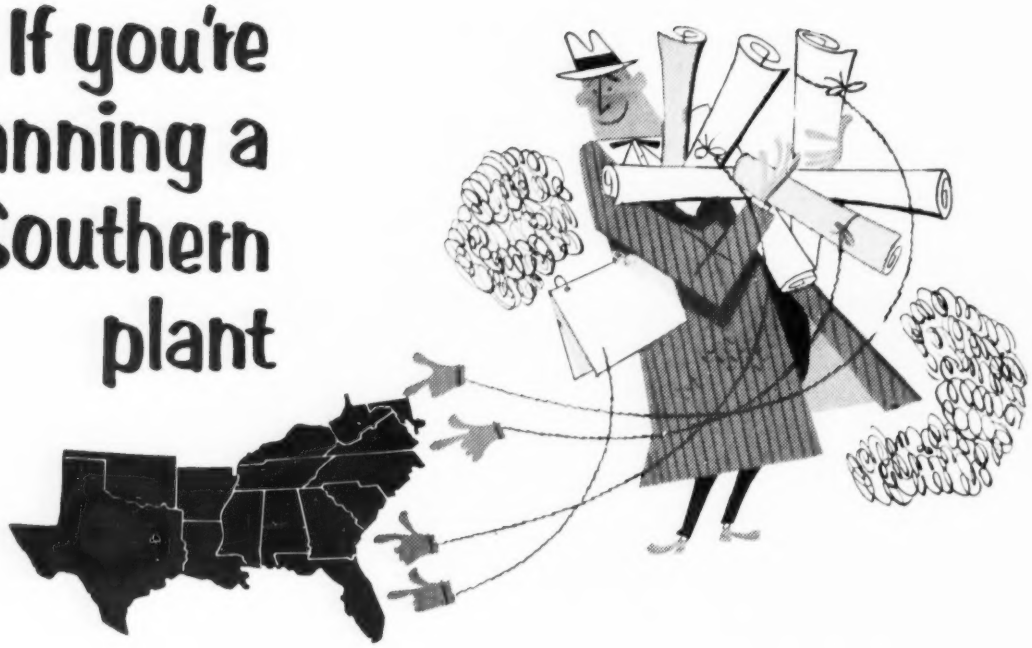
All of this points up to us the need for the American farmer to produce cotton at the lowest possible cost, mechanizing in order to do this, and for him to realize fully and completely that the American textile industry is his best customer and is likely to be as long as cotton is spun and woven.

Parity for Print Cloths

A friend of ours has another friend who has a friend in Congress. Our friend says that through this rather devious channel he plans to see that a bill is introduced in the current session which will provide for 90% of parity for print cloths. He is also threatening to include carded yarns, both single and plied. We assume that he is joking but the idea is rather intriguing.

This would-be legislator argues that there is no more rhyme or reason for a butter producer in Wisconsin to have a "floor" under the price of butter, than it is for a manufacturer of 80 squares in Georgia to have some sort of floor. He says that textile stockholders, textile employees, and perhaps even textile mill managers are

If you're planning a Southern plant



We have first-hand facts of the South at our finger tips, unbiased know-where that will speed your site slection and save the valuable time of your key executives.

With over 38 years of experience in the South, Robert and Company Associates has helped locate and design plants for many of America's great names in virtually every industrial field.

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Marshall Field & Co., Inc.
Mt. Vernon-Woodberry Mills, Inc.
Muscogee Manufacturing Co.
Peerless Woolen Mills
Pepperell Manufacturing Co.
Standard-Coosa-Thatcher Co.
Swift Manufacturing Co.
Swift Spinning Mills
The Springs Cotton Mills
Thomaston Mills
United Merchants & Manufacturers Co., Inc.
West Point Manufacturing Company

badly in need of a parity formula, and that in times such as these he will not argue about whether it should be 90% or 80%. He will be glad to get either.

He claims that the recent explorations of Crystal Cave and a possible connecting tunnel between Crystal Cave and Mammoth Cave eliminate the possible objection that the government would not have sufficient storage space for print cloths or for carded yarns. He claims the government owns some three hundred million pounds of butter which is stored in caves and elsewhere and, because of the high price of butter, he has been eating oleomargarine for so long now that he cannot tell the difference. He argues that after five years 30s single yarns would probably taste just as good as butter if both had been underground that long.

As we said in the beginning, we do not know whether our friend is speaking in seriousness or in jest, but, at least, this is an interesting idea. For our part, we are working on a proposal which will embody parity for newspaper men, textile people, and everybody else, even Congressmen.

Move over, Dr. Townsend.

Walsh-Healey for Wool

Perhaps you noticed in the paper that the Walsh-Healey people have come out with a new minimum wage for wool. This time they went up from $1.05 an hour to $1.20 an hour, and you will recall that this is the law which requires that certain minimum wage figures be met for work done on government contracts. The present status of the matter, as this is written, is that the Secretary of Labor has merely announced the intention of "determining" $1.20, but, if he runs true to form, by the time this appears in print, he will have examined all of the various objections which will be filed with him and he will have decided that the objections are not valid.

The interesting part about this is that probably, by the time this appears in print, the woolen mills will have filed a suit against the Secretary, and the interesting part about *that* is the fact that most of the woolen mills involved are in New England.

You will recall that some months ago approximately 200 cotton and rayon mills filed a suit against the Secretary of Labor to restrain him from imposing a new minimum in that branch of the industry, and there was considerable dissenting opinion expressed from New England. If the woolen case goes the route we expect it to take—final imposition of a $1.20 minimum, a suit against the Secretary by the woolen mills, and a temporary re-

(Continued on page 289)

April 7-10—Annual convention, **Cotton Manufacturers Association of Georgia**, Boca Raton (Fla.) Hotel and Club.

April 15-16—Spring meeting of the **Textile Industry Conference on Electrical Problems and Equipment**, Georgia Institute of Technology, Atlanta, Ga. Sponsored by textile sub-section, AIEE.

April 17—Spring meeting, **Alabama Textile Operating Executives**, Thach Hall, Alabama Polytechnic Institute, Auburn, Ala. Discussion on service departments—mechanical, electrical, maintenance, and supply.

April 21-23—**Southern Industrial Wastes Conference, Hotel Shamrock**, Houston, Texas.

April 22-24—Annual convention, **American Cotton Manufacturers Institute**, Jung Hotel, New Orleans, La.

April 26-30—**American Textile Machinery Exhibition (sponsored by American Textile Machinery Association), Atlantic City (N. J.) Auditorium.**

April 26-30—**Industrial Health Conference**, Hotel Sherman, Chicago, Ill.

April 28—**Lowell Technological Institute Alumni Meeting, Haddon Hall**, Atlantic City, N. J.

April 29-30—Ninth annual **Industrial Engineering Conference**, Hotel Statler, New York City. Sponsored by Society for Advancement of Management and American Society of Mechanical Engineers.

April 29—Annual banquet of **National Knitted Outerwear Association**, Hotel Waldorf-Astoria, New York City.

May 3-4—17th **Hosiery Industry Conference** and 50th annual meeting of **National Association of Hosiery Manufacturers**, Claridge Hotel, Atlantic City, N. J.

May 5-6—Spring meeting of **The Fiber Society**, Institute of Textile Technology, Charlottesville, Va.

May 8—Spring meeting, **Textile Operating Executives of Georgia**, A. French Textile School, Georgia Institute of Technology, Atlanta, Ga.; topics: carding and spinning.

May 19-20—100th Anniversary Celebration of **The National Association of Cotton Manufacturers**, Somerset Hotel, Boston, Mass.

May 27-29—Annual convention, **South Carolina Textile Manufacturers Association**, The Cloister, Sea Island, Ga.

June 10-12—Annual meeting, **Southern Textile Association**, Ocean Forest Hotel, Myrtle Beach, S. C.

June 11—53rd annual **Alumni Reunion of Philadelphia Textile Institute**, Manufacturers Golf and Country Club, Oreland, Pa.

June 13-18—Annual meeting, **ASTM** (11th Exhibit of Testing and Scientific Apparatus and Laboratory Supplies and 9th Technical Photographic Exhibit). Sherman and Morrison Hotels, Chicago, Ill.

Sept. 9-12—**Fourth Canadian Textile Seminar, Queen's University**, Kingston, Ontario, Canada.

Sept. 15-16—National convention, **American Association of Textile Chemists and Colorists**, Biltmore Hotel, Atlanta, Ga.

Sept. 23-24—Annual meeting, **Combed Yarn Spinners Association**, Grove Park Inn, Asheville, N. C.

Oct. 4-8—18th **Southern Textile Exposition**, Textile Hall, Greenville, S. C.

Oct. 14-15—Annual meeting, **North Carolina Textile Manufacturers Association**, Carolina Motel, Pinehurst, N. C.

Oct. 23—Fall meeting, **Textile Operating Executives of Georgia, Georgia Institute of Technology (A. French Textile School)**, Atlanta, Ga.; topics: slashing and weaving.

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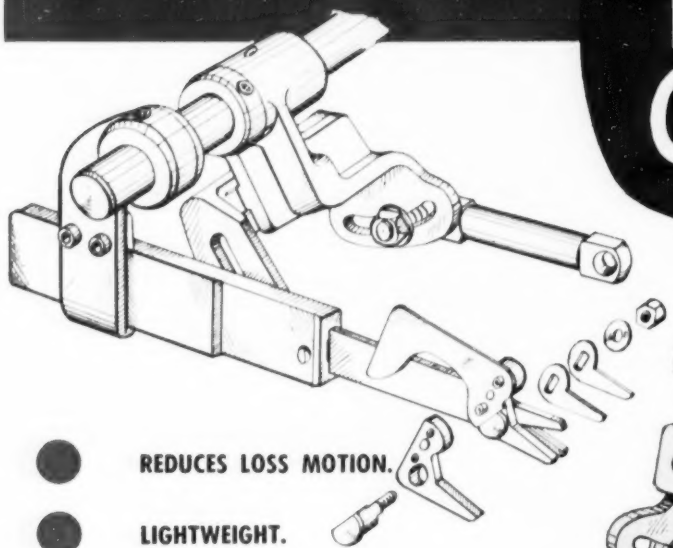
with the New EVERYBEST THREAD CUTTER



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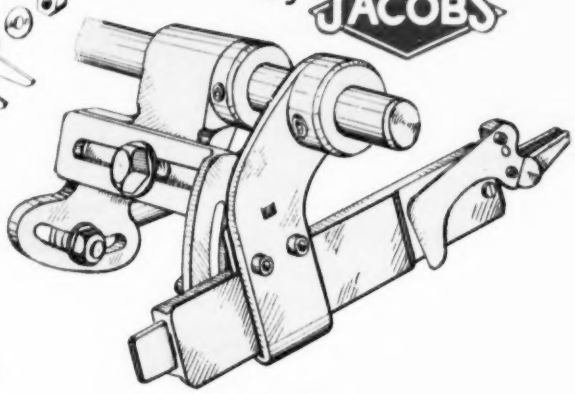

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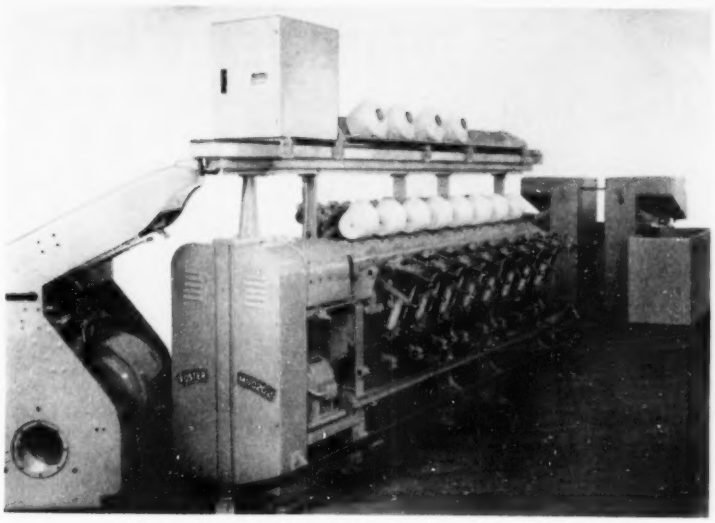
NEW Equipment AND MATERIALS



Foster Model 202 winder. Note tender at extreme left.

Automatic Winder Makes Satisfactory Cones for Knitting, Quilling, Warping, etc.

→ *See it in Atlantic City*

The Foster Model 202 automatic cone winder winds all types of spun yarns on cones for knitting, quilling, warping, doubling and twisting supply—all that the operator is required to do is drop the full bobbin of yarn in a chute and catch the end in a clip in one simple motion, to doff and don cones and thread up new cones.

According to the manufacturer, it is the first automatic winder to produce satisfactory knitting cones (6" traverse and 8½" dia.) which are equal in quality to those produced on the Foster Model 102 winder.

The actual winding is done on a mechanism which is the same as that of the Foster Model 102, and the cone produced is the standard Foster cone. The radically new feature of the machine is an automatic motor-driven "tender" which travels around the machine on rails, picks up ends down by means of suction, and ties them with a standard weaver's knot. The tender is selective in that it passes by an end that is running. Critical working parts are kept clean of lint by a blower on the tender.

The machine increases production per hour per operator by anywhere from 100% to 300%, as compared with modern non-automatic winders, such as the Model 102. It also decreases operating costs proportionately. Other features are low maintenance and economical use of horsepower.

Automatic features of this machine are: When an end breaks or runs out, the spindle stops, the broken end or run-out on the winding package is found and tied to the end on the placed supply bobbin, and the winding starts again; the empty and partially filled bobbins are doffed onto a conveyor, which carries them to a bobbin sorter, at the end of the machine, which deposits partially filled bobbins in one bin and empty bobbins in another.

Foster Machine Co., Westfield, Mass.

For additional data, request item D-109, using Handy Return Card on page 260.

Roto-Drafter Increases Flexibility of American System

→ *See it in Atlantic City*

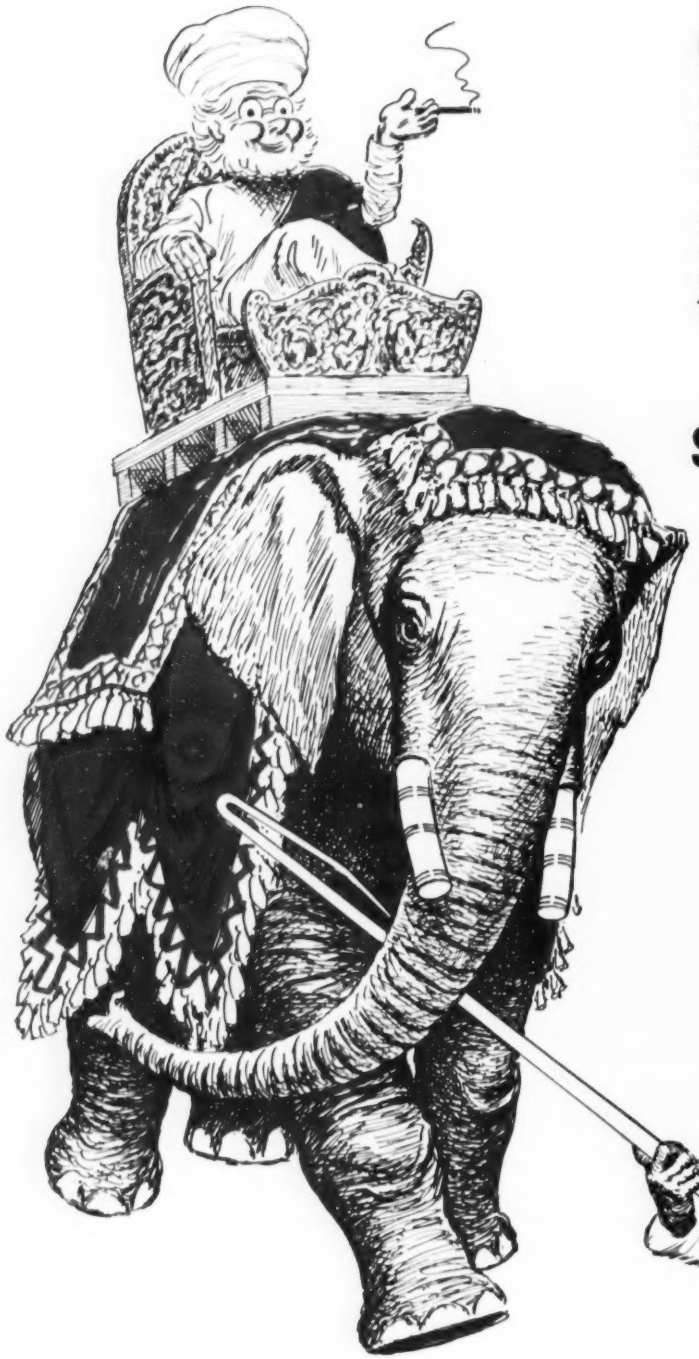
An entirely new machine has been developed to increase the flexibility of Whitin's American System equipment. Designated the Roto-Drafter, it is designed to perform the processing originally performed on top by draw frames and later by intersecting gills or pin drafters. The new machine performs what is essentially both a drawing and drafting operation on top and produces an evener sliver for the subsequent roving frames and will permit maximum utilization of the latter.

Most flexible, it can be quickly converted to a wide range drawing frame, tentatively named Roller-Drafter, by any mill mechanic in about one half an hour.

When used as a Roto-Drafter, this machine has as its essential feature a circular cylinder covered with pins whose angular position relative to the cylinder surface changes to control the fibers as they are drawn from the delivery rolls and released to the front rolls. The machine has four deliveries and has approximately the same floor space requirements as the standard draw frame. Special creels are provided for either cans or ball.

Wool, synthetic, or blended fibers can be processed in lengths from 2" to 9".

The cylindrical drafting unit can



NATURAL STRENGTH . . . The strength of Textile Spring-Beard Needles is the natural result of quality control. A special steel formula, superior tempering, rigid scientific and electronic controls assure the strength combined with flexibility required in today's high-speed knitting operations.

Strength is another reason for using Textile Spring-Beard Needles. Try them . . . see the more even stitches and better fabrics you get . . . at lower production costs.

TEXTILE MACHINE WORKS, READING, PENNA.

Textile

SPRING-BEARD NEEDLES

For Full-Fashioned Knitting
For Tricot Knitting

ARROW Latch Needles

be quickly removed from each of the four heads and replaced by drawing rolls. When equipped with drawing rolls, it will process cotton, synthetic or blended fibers from 1" to 9". Due to its unusual design, two deliveries can be run with pins as a Roto-Drafter, and two deliveries on the same frame can be run as a Roller-Drafter.

Also two deliveries can be run as a breaker section and the other two as intermediate or finisher section.

In addition to its flexibility, this machine will provide for higher production, greatly increased range of sliver weights processed and produced, and minimal maintenance.

Whitin Machine Works, Whitinsville, Mass.

For additional data, request item D-205, using Handy Return Card on page 260.

Laminated Plastic Redraw Cap for Dacron Shipping Tubes

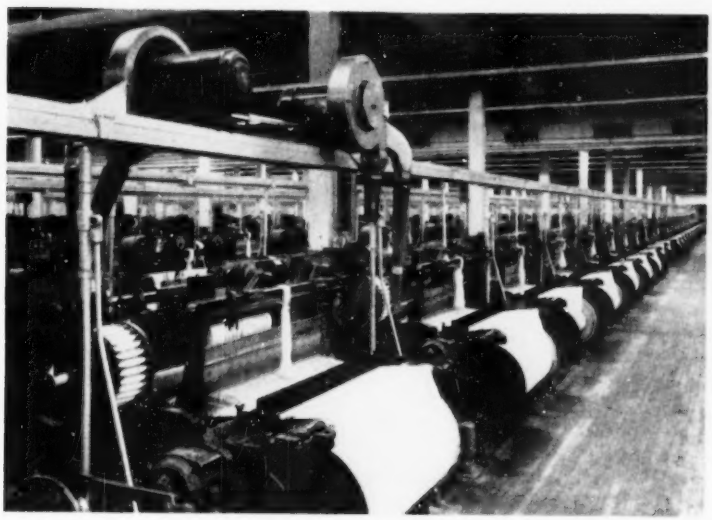
→ *See it in Atlantic City*

A one-piece laminated plastic redraw cap for Dacron shipping tubes has been announced. Especially designed to provide universal service on all current Dacron shipping tubes, regardless of inside diameter variations, the new cap fits all tubes snugly, yet may be instantly snapped on or off.

Made of strong, durable paper-base Grade XX Synthane, the redraw cap is machined to an extremely smooth, non-snag finish. The cap is fabricated in one piece from tubular stock.

Synthane Corp., Oaks, Pa.

For additional data, request item D-213, using Handy Return Card on page 260.



Type CTL loom cleaner (Parks-Cramer) in large cotton weave room.

Parks-Cramer Traveling Loom Cleaner

→ *See it in Atlantic City*

After nearly five years of development and mill trials, purchased installations of the Parks-Cramer traveling loom cleaner are reported to have been operating for more than two years with excellent results over both cotton and staple rayon looms, and to be already in production for widespread application.

Embodying the same traveling blower principles which have proved successful during the last twenty years in spinning mills, and redesigned for necessary additional functions, this Type CTL tandem unit has proved successful for the specialized task of loom cleaning.

These traveling blowers prevent accumulation of lint on loom arch, harnesses, drop wires, stop motions, transfer motions, heads, lay, shuttle boxes, beam, yarns and fabric; greatly reduce required frequency of hand cleaning; lessen loom stops; increase production; lessen oil spots, woven-in lint, skips, floats, set and start up marks, pick-outs, and other fabric defects; improve appearance of weave room.

Traveling continuously at 60 feet per minute without interruption on a simple track system over the looms and with air outlets—both oscillating and stationary—reaching down to within a few inches of surfaces to be cleaned, the high velocity and precise directioning required for effective loom cleaning are secured.

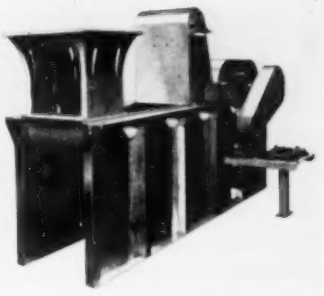
Except for the motor which drives each blower unit, the loom cleaner is entirely mechanical. Reliable coverage of every loom is assured at prescribed intervals (up to ten minutes, depending upon circumstances).

Provision is made for automatically reducing or interrupting momentarily air currents over certain loom motions or areas where full air velocity might be harmful.

All equipment is conveniently accessible from the floor and is designed to minimize electrical troubles and the effects of room humidity. Fan is coated. Electric conductors are shielded.

The loom cleaner is applicable to rooms where either high or low rela-

NEW Equipment AND MATERIALS



No Tangles with this Rope Type Saturator

The elevated roll and other internal modifications on this new ten-foot rope saturator have made possible improved performance and elimination of tangles and damaged fabrics, mill reports to the manufacturer indicate.

Cook-P&N Machine Co., Inc., 365 Dorchester Ave., Boston 27, Mass.

For additional data, request item D-215, using Handy Return Card on page 260.

NEW versatile Du Pont "CELANTHRENE"* Cerise B for bright pink shades on "ORLON"*, "DACRON"*, nylon and acetate

Here's an amazingly versatile new dye! It's Du Pont "CELANTHRENE" Cerise B—recommended for good light and wet fastness on *all* the hydrophobic fibers.

On type 42 "ORLON" acrylic fiber—Du Pont "CELANTHRENE" Cerise B is particularly valuable on this fiber, where it shows excellent fastness to washing, perspiration, and light.

On nylon—this color builds up well, has good fastness, and yields bluish-pink shades.

On both "DACRON" polyester fiber and acetate—Du Pont "CELANTHRENE" Cerise B is recommended for printing, and shows outstanding strength and freedom from specking.

On "DACRON"—"CELANTHRENE" Cerise B can be applied from benzoic acid, phenolic or other carrier baths, by pressure dyeing without a carrier and by the Thermosol process.

On acetate—the color is level-dyeing with very good buildup properties, and can also be used to produce bright scarlet shades of improved sublimation fastness.

For further information—and for help on any coloring problem—write to E. I. du Pont de Nemours & Co. (Inc.), Dyes and Chemicals Division, Wilmington 98, Delaware.

*REG. U. S. PAT. OFF.

Du Pont Dyes

DU PONT

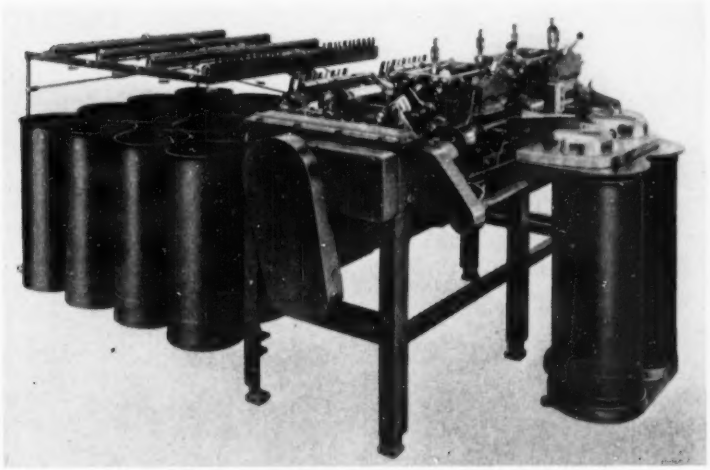
REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

tive humidity is maintained, and where either cotton or man-made staple yarns of fine or coarse numbers are woven. Surfaces at warp level and above are kept sufficiently lint-free generally to eliminate hand cleaning between warp-outs. The track itself is cleaned by the cleaner.

Parks-Cramer Co., Fitchburg, Mass.

For additional data, request item D-206, using Handy Return Card on page 260.



Stellite high speed pin drawer with two heads.

Faller-Type Drawing Frame for Wool and Synthetics

→ *See it in Atlantic City*

The Stellite high speed pin drawer is a faller-type drawing frame suitable for the processing of wool, synthetics, and blends, and can be used for the precombing and postcombing operations as well as drawing.

It has two heads and can deliver per head slivers of from 42 to 60 grains per yard up to 350 to 400 grains per yard. Delivery speed of the sliver in meters per minute corresponds to the draft multiplied with 8 - 9.

The machine has 60 fallers per head with pins 1½ inches long. Pinning width of fallers, 8¼ inches; length of pinning field, 7 5/16 inches; automatic stop motions; three-cylinder draft system; delivery into two or four cans, 15 inches x 36 inches.

Stellite American Corp., 60 East 42nd St., New York 17, N. Y.

For additional data, request item D-106, using Handy Return Card on page 260.

Automatic Recording Pressure Controller for Homogenizers

→ *See it in Atlantic City*

Manton-Gaulin homogenizers already installed in textile mills or new machines can be equipped with an automatic recording pressure controller to provide (1) automatic controlled operation, (2) increased processing efficiency, and (3) direct and immediate labor savings.

Automatic sensitive air pressure regulation produces continuous uniformity; air-actuated valve replaces slower manually-operated valve, giving instantaneous control of pressure or feed variations; permanent records of previous processing make reproducible homogenization possible.

Another new development is a single stage homogenizing valve designed specifically for the textile industry. Elimination of the pilot removes the possibility of pilot breakage or plugging due to contamination of size by foreign matter. Valve is guided from the back and is self-cleaning. With most size formulas, approximately 25% less homogenizing pressure and therefore a corresponding reduction in horsepower are required than were used in the two-stage assembly type. Simplified design has reduced maintenance costs considerably.

Manton-Gaulin Mfg. Co., Inc., Everett, Mass.

For additional data, request item D-108, using Handy Return Card on page 260.

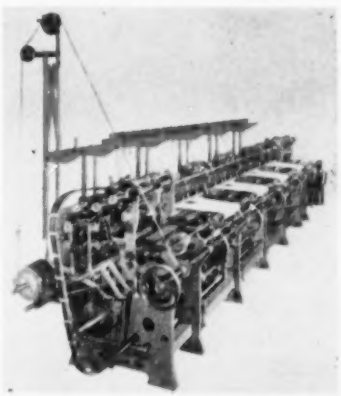
Four-Section Full-Fashioned Sweater Machine Has Up to Six Yarn Carriers

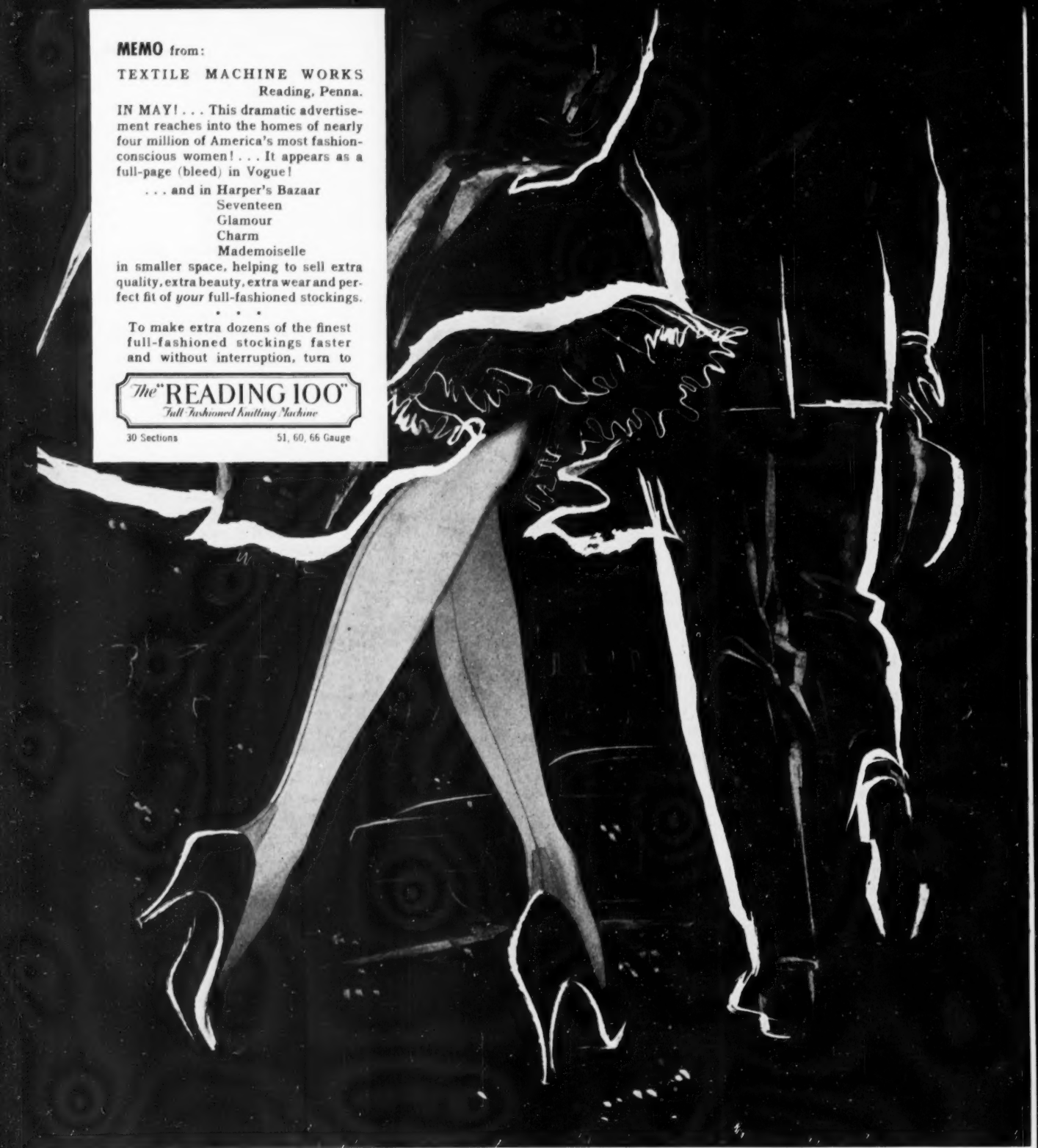
An American-built Cotton's Patent full-fashioned sweater machine is now available. Designated the Model GM-1, it is offered as a unit of three —namely, two body machines of 28" knitting width (one for fronts and one for backs) and one sleeve machine of 32" knitting width. All units are four sectional, measuring approximately 19' 2" long, 4' 2" high, and 5' 6" wide, so that the equipment is especially suitable for installation in outerwear knitting plants with limited space for new machinery.

Some idea of the machine's production capacity can be gained from the fact that when knitting Orlon it was running 60 courses per minute, making excellent fabric.

(Continued on page 213)

Reiner full-fashioned sweater knitting machine.





MEMO from:

TEXTILE MACHINE WORKS
Reading, Penna.

IN MAY! . . . This dramatic advertisement reaches into the homes of nearly four million of America's most fashion-conscious women! . . . It appears as a full-page (bleed) in Vogue!

. . . and in Harper's Bazaar
Seventeen
Glamour
Charm
Mademoiselle

in smaller space, helping to sell extra quality, extra beauty, extra wear and perfect fit of *your* full-fashioned stockings.

• • •

To make extra dozens of the finest full-fashioned stockings faster and without interruption, turn to

The "READING 100"
Full Fashioned Knitting Machine

30 Sections 51, 60, 66 Gauge

ALWAYS IN FASHION WITH FULL-FASHIONED STOCKINGS

There go the most beautiful legs in the world, American legs . . . in the full-fashioned stockings American women prefer. Full-fashioned stockings look better, feel better, wear better every time. They're custom-knit to fit at every crucial point, with never a wrinkle, a twist, or ugly sag. And only full-fashioned stockings boast the fine back seam with its magic perspective . . . an artist's trick that flatters the leg. So if you want the best in fashion, insist on full-fashioned stockings. It's smarter that way . . .

©1954 Hosiery Fashions

don't miss the big

ATLANTIC CITY SHOW

A preview of the second

American

Textile

Machinery

Exhibition

Atlantic City, N. J.—April 26-30, 1954

A special 28-page section

SHOW FACTS IN BRIEF

What: American Textile Machinery Exhibition (Atlantic City Show)

A quadriennial event sponsored by the American Textile Machinery Association which this year is celebrating the 140th Anniversary of the founding of the textile machinery industry in this country.

When: April 26 through 30, 1954

Show opens Monday morning, April 26, at 10:00 A.M.; closes Friday, April 30, at 6:00 P.M. Only five days in which to see the most textile machinery and equipment in operation ever assembled under one roof—more than $10 million worth.

Where: Atlantic City, New Jersey—Convention Hall

Easily accessible—plenty of hotel accommodations—largest exhibition building in the world.

Who will exhibit: More than 270 suppliers

The newest textile processing machinery, equipment, and supplies will be displayed, representing four years of progress and achievement of suppliers to the industry through research and development. In 1950 only the main level of the exhibition hall was utilized; this year the second level, which is nearly half as large as the main level, will also be filled with the products of many manufacturers—providing a total exhibition area of 190,000 square feet.

Who is invited: All textile industry personnel

Anyone connected with the textile industry, domestic and foreign, and representatives of firms supplying equipment, materials, or services to the industry. This includes top management, supervisors, engineers, technicians, and other key textile mill personnel.

How to get there: By plane, train, bus, ship, or car.

Mill men can travel to Atlantic City by plane, train, bus, ship, and car. Rail and air lines plan to put on special equipment as reservations demand. Both the Southern Railway and Eastern Airlines have made arrangements to accommodate those who desire to go to Atlantic City directly from the ACMI convention in New Orleans. Special cars and flights can be provided from the textile centers. Those desiring to go as a group should contact local transportation representatives. If you have not already done this, make your reservations now.

Admission: By ticket (free to textile industry personnel)

Tickets for admission to the exhibition hall are free to everyone in the textile industry who will attend, although the general public is not admitted. For tickets, write to one of the following: (1) Any exhibitor listed in the directory on the following pages; (2) Albert C. Rau, manager, Campbell-Fairbanks Expositions, 322 Park Square Building, Boston, Mass.; (3) Editor, TEXTILE INDUSTRIES, 806 Peachtree St., N.E, Atlanta 5, Ga.

Housing: 35 hotels near Convention Hall.

Atlantic City has 35 hotels, with thousands of rooms, that are within walking distance of the Show (see accompanying map and list of hotels). If you have not already made your reservations, do it now. Write Convention Housing Bureau, 16 Central Pier, Atlantic City, N. J. Be sure to include dates of arrival and departure.

If you like to eat, there are all kinds of restaurants (see list on page 20 this section). Also, a complete restaurant will be provided on the second level of the exhibition hall for convenience of exhibitors and spectators.

Show hours: 10:00 A.M. to 6:00 P.M. daily except Wednesday

Doors to the exhibition hall will open at 10:00 A.M. and close at 6:00 P.M. daily except on Wednesday when they will remain open until 10:00 P.M.

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American Moistening 115
American Paper Tube 256
American Rieter 144
American Schiess 1014
Am. Standard Fabricators. 817
American Viscose 358
Anderson Machine Shop.. 561
Andrews & Goodrich..78 & 840
Armco Steel 292
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Arrow-Hart & Hegeman.. 868
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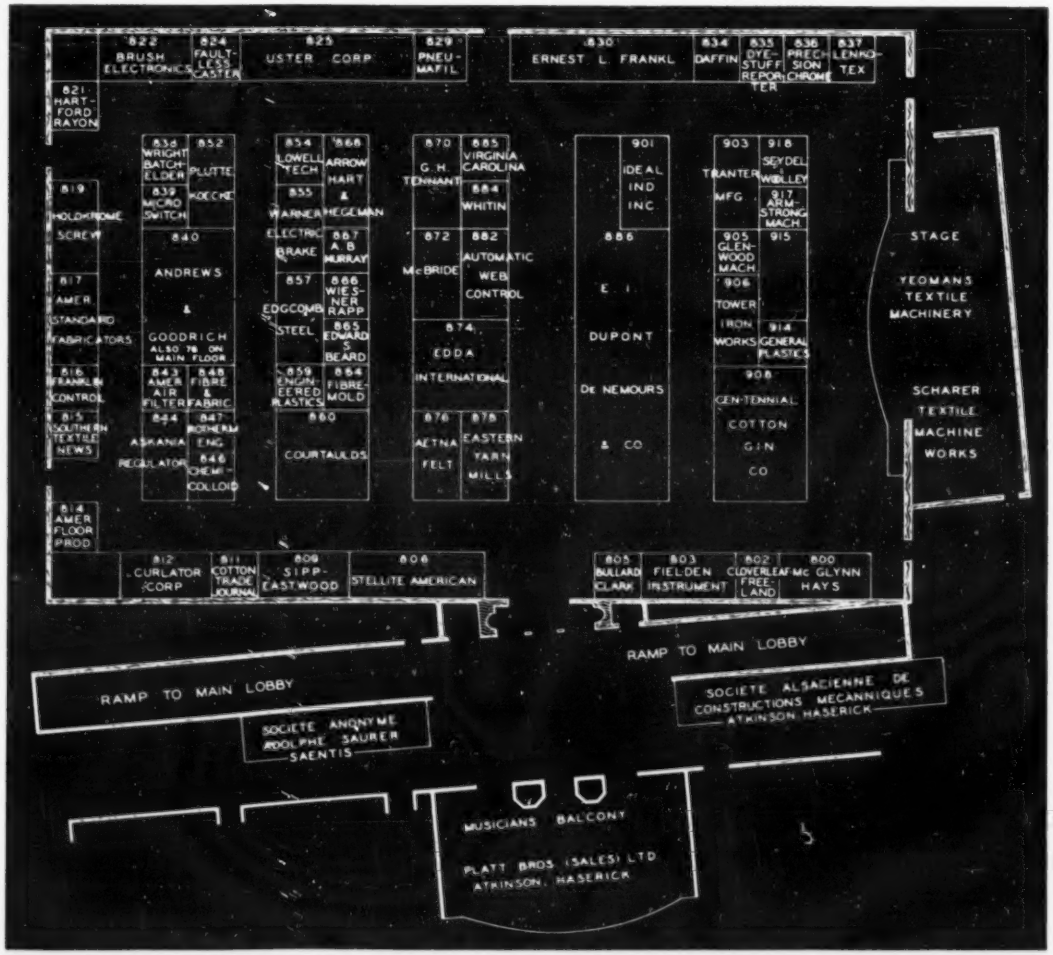
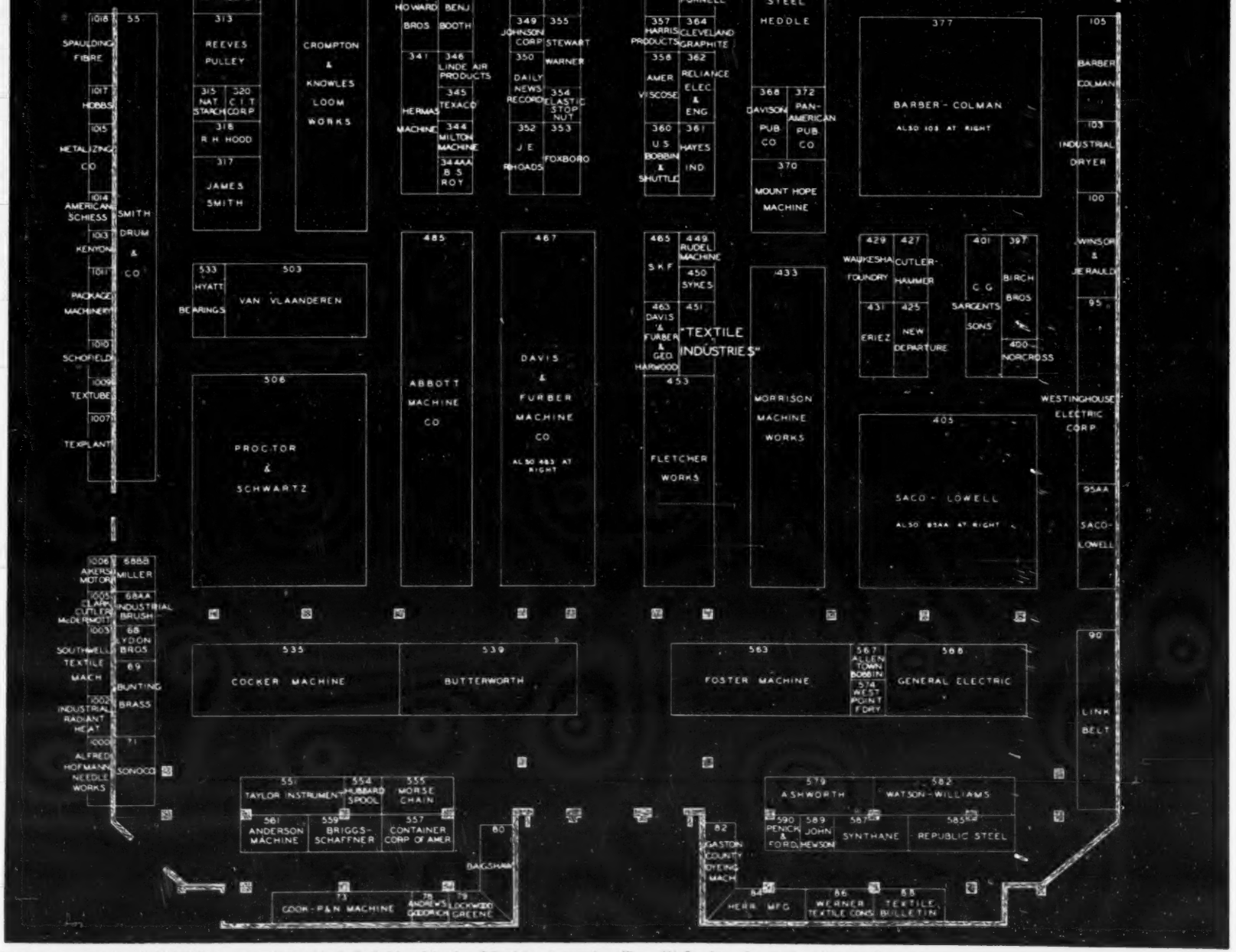


Supplement to **TEXTILE INDUSTRIES** for April, 1954—a W. R. C. Smith publication. Editorial and executive offices, 806 Peachtree St., N. E., Atlanta 5, Ga.

"Textile Industries" suggests that you take this with

MAIN FLOOR—BOOTHS 1-799 (Booths



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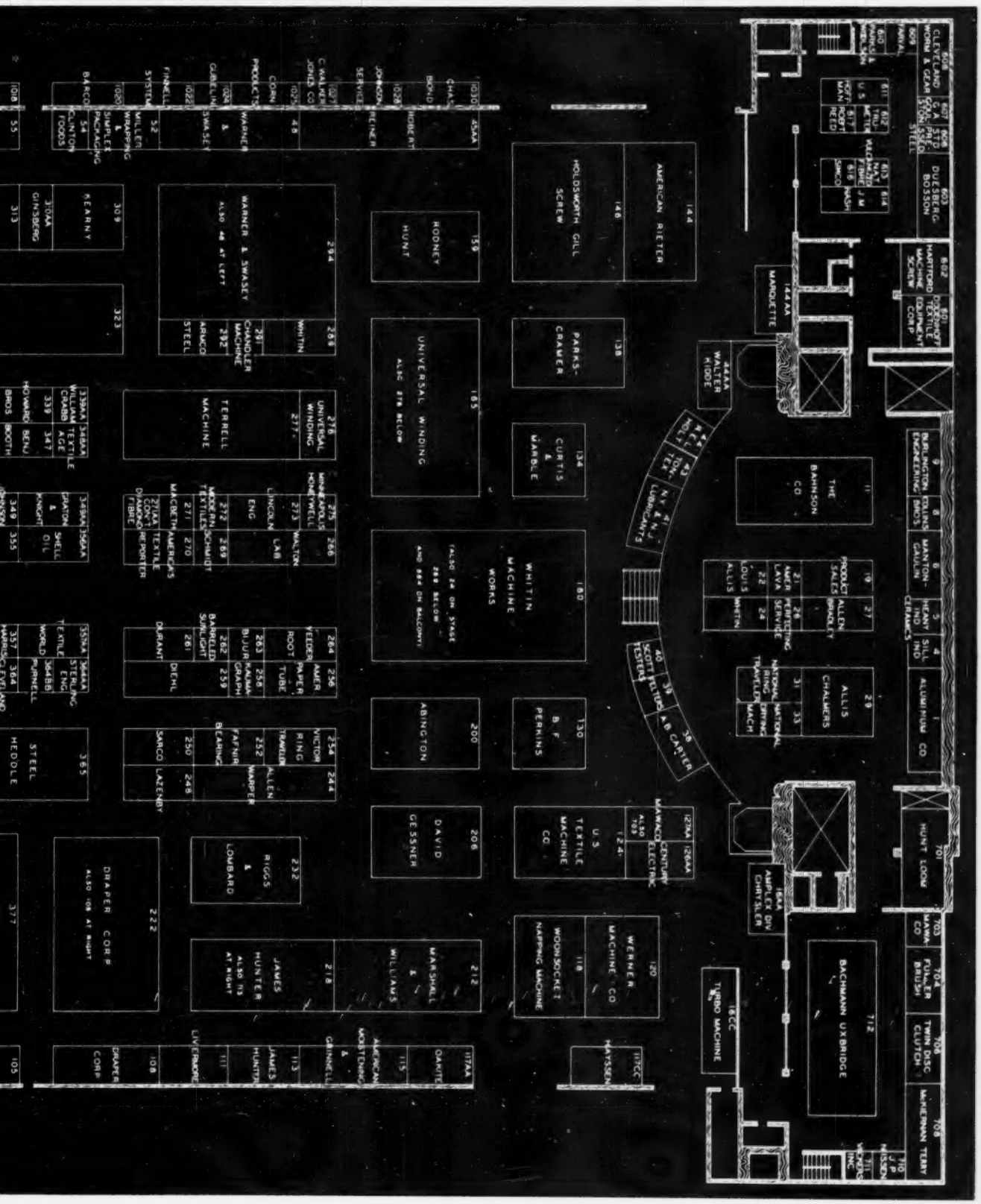
th you to the ATLANTIC CITY SHOW, April 26-30, 1954

ths 800 - 918 on Second Floor. See reverse side)



"Textile Industries" suggests that you

TAKE THIS WITH YOU TO THE ATLANTIC CITY SHOW

a convenient list of exhibitors and plan of the exhibition hall

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American Viscose 358
Anderson Machine Shop.. 561
Andrews & Goodrich..78 & 840
Armco Steel 292
Armstrong Machine 917
Arrow-Hart & Hegeman.. 868
Benjamin Booth 347
Briggs-Shaffner 559
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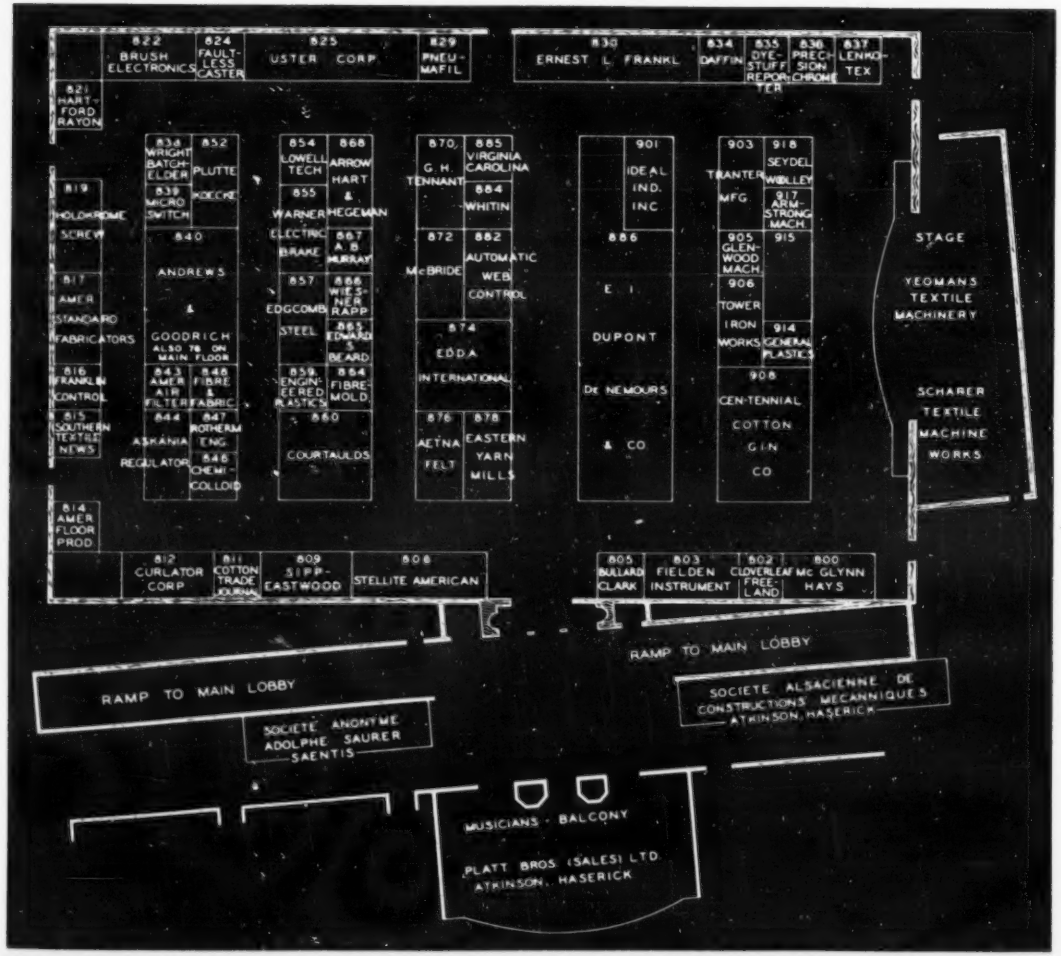
SECOND FLOOR—BOOTHS 800 - 918

(Booths 1 - 799 on Main Floor. See reverse side)



Supplement to TEXTILE INDUSTRIES for April, 1954—a W. R. C. Smith publication. Editorial and executive offices, 806 Peachtree St., N. E., Atlanta 5, Ga.

SHOW FACTS IN BRIEF

What: American Textile Machinery Exhibition (Atlantic City Show)

A quadriennial event sponsored by the American Textile Machinery Association which this year is celebrating the 140th Anniversary of the founding of the textile machinery industry in this country.

When: April 26 through 30, 1954

Show opens Monday morning, April 26, at 10:00 A.M.; closes Friday, April 30, at 6:00 P.M. Only five days in which to see the most textile machinery and equipment in operation ever assembled under one roof—more than $10 million worth.

Where: Atlantic City, New Jersey—Convention Hall

Easily accessible—plenty of hotel accommodations —largest exhibition building in the world.

Who will exhibit: More than 270 suppliers

The newest textile processing machinery, equipment, and supplies will be displayed, representing four years of progress and achievement of suppliers to the industry through research and development. In 1950 only the main level of the exhibition hall was utilized; this year the second level, which is nearly half as large as the main level, will also be filled with the products of many manufacturers—providing a total exhibition area of 190,000 square feet.

Who is invited: All textile industry personnel

Anyone connected with the textile industry, domestic and foreign, and representatives of firms supplying equipment, materials, or services to the industry. This includes top management, supervisors, engineers, technicians, and other key textile mill personnel.

How to get there: By plane, train, bus, ship, or car.

Mill men can travel to Atlantic City by plane, train, bus, ship, and car. Rail and air lines plan to put on special equipment as reservations demand. Both the Southern Railway and Eastern Airlines have made arrangements to accommodate those who desire to go to Atlantic City directly from the ACMI convention in New Orleans. Special cars and flights can be provided from the textile centers. Those desiring to go as a group should contact local transportation representatives. If you have not already done this, make your reservations now.

Admission: By ticket (free to textile industry personnel)

Tickets for admission to the exhibition hall are free to everyone in the textile industry who will attend, although the general public is not admitted. For tickets, write to one of the following: (1) Any exhibitor listed in the directory on the following pages; (2) Albert C. Rau, manager, Campbell-Fairbanks Expositions, 322 Park Square Building, Boston, Mass.; (3) Editor, TEXTILE INDUSTRIES, 806 Peachtree St., N.E, Atlanta 5, Ga.

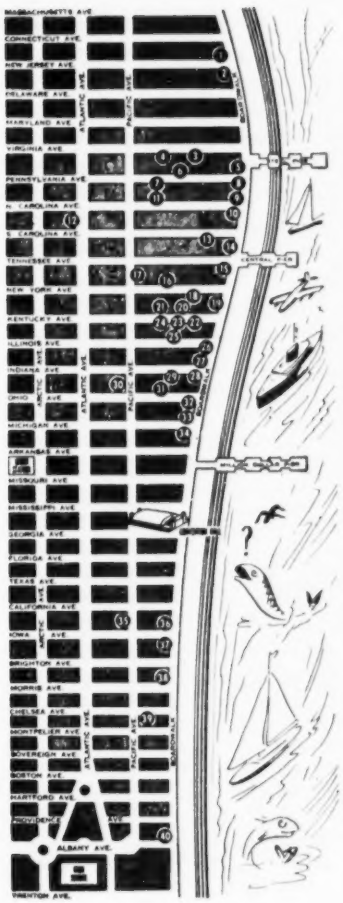
Housing: 35 hotels near Convention Hall.

Atlantic City has 35 hotels, with thousands of rooms, that are within walking distance of the Show (see accompanying map and list of hotels). If you have not already made your reservations, do it now. Write Convention Housing Bureau, 16 Central Pier, Atlantic City, N. J. Be sure to include dates of arrival and departure.

If you like to eat, there are all kinds of restaurants (see list on page 20 this section). Also, a complete restaurant will be provided on the second level of the exhibition hall for convenience of exhibitors and spectators.

Show hours: 10:00 A.M. to 6:00 P.M. daily except Wednesday

Doors to the exhibition hall will open at 10:00 A.M. and close at 6:00 P.M. daily except on Wednesday when they will remain open until 10:00 P.M.

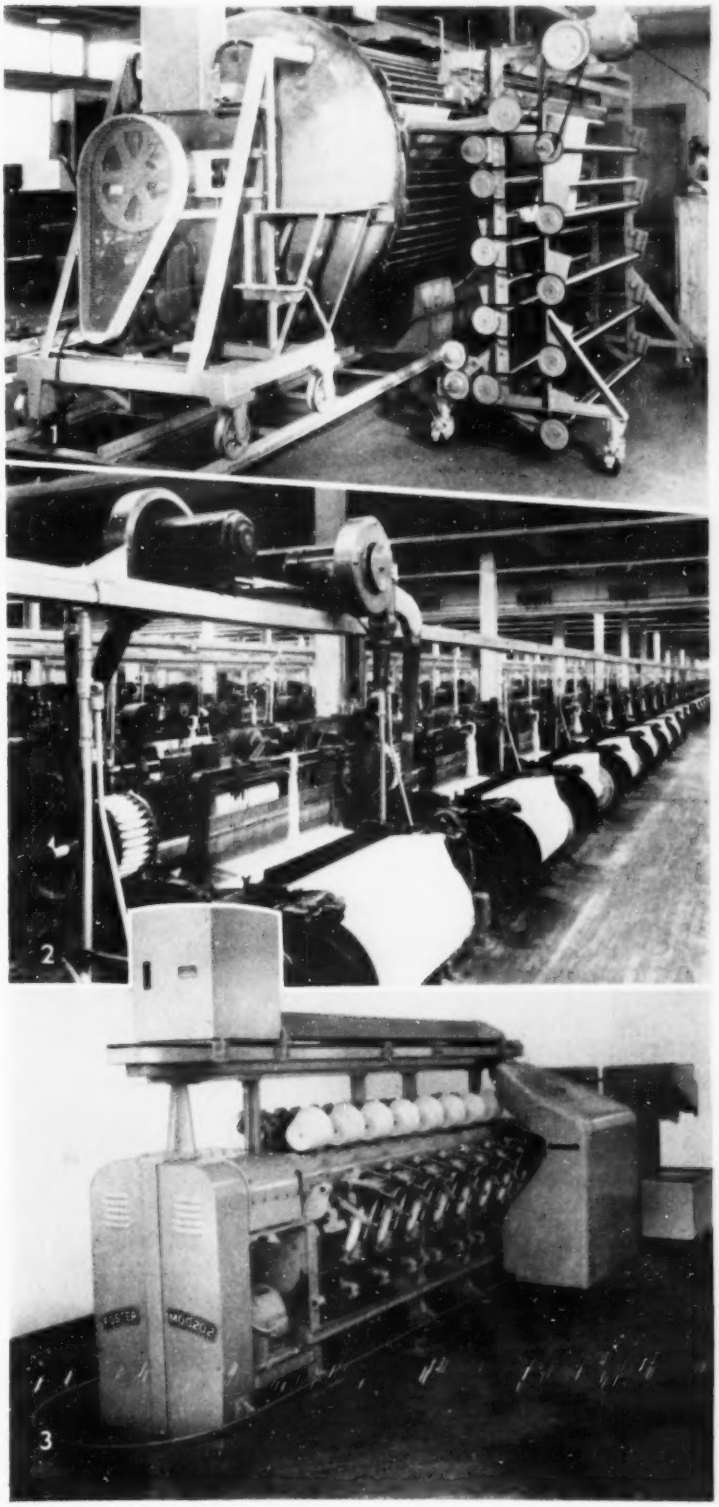


Location of Hotels

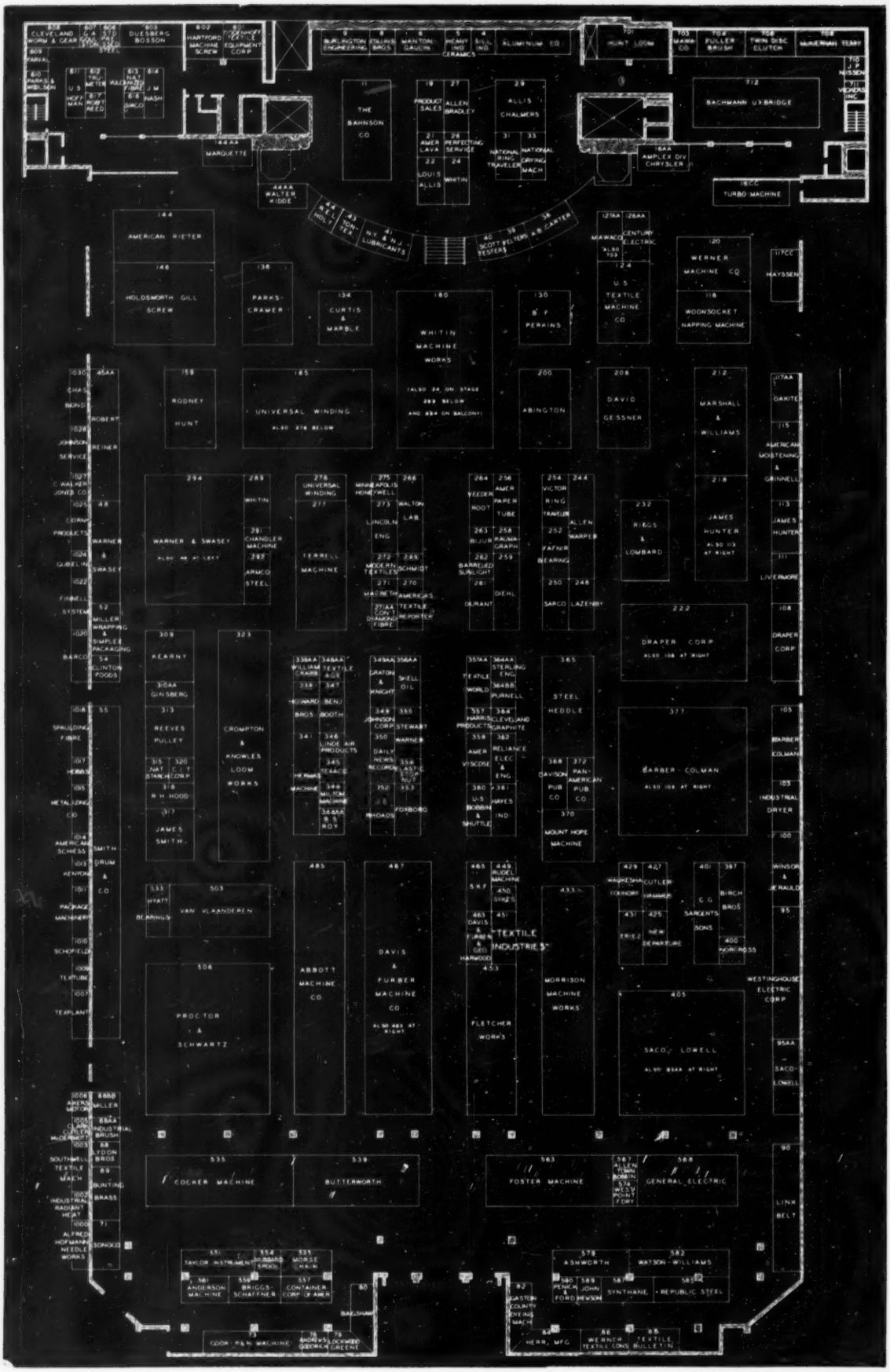
(Keyed to map above)

Map No.	Hotel
37	Ambassador
21	Boscobel
1	Breakers
27	Brighton
9-10	Chalfonte-Haddon Hall
38	Chelsea
4	Clarendon
28	Claridge
7	Colton Manor
17	Columbus
29	Crillon
33	Dennis
30	Eastbourne
16	Flanders
35	Fox Manor Hotel
6	Holmhurst
23	Jefferson
24	Kentucky
11	Lafayette
18	Lexington
25	Madison
32	Marlborough-Blenheim
15	Mayflower
20	Monticello
14	New Belmont
12	Penn-Atlantic
40	President
36	Ritz-Carlton
31	Runnymede
5	Seaside
13	Senator
34	Shelburne
22	Sterling
26	Traymore
39	Mark

Look for this equipment at the Big Show



1. Wiesner-Rapp's Barotor, the DuPont open-width pressurized fabric dyeing machine, with loading and unloading creel; a special feature is the quick-opening door.
2. Mill installation of the Parks-Cramer loom cleaner.
3. The Foster Model 202 automatic cone winder.


1400
THE BAHNSON CO
AMERICAN RIETER
HOLDSWORTH GILL SCREW
PARKS-CRAMER
CURTIS & MARBLE
WHITIN MACHINE WORKS
B F PERKINS
ABINGTON
DAVID GESSNER
MARSHALL & WILLIAMS
WERNER MACHINE CO
WOONSOCKET NAPPING MACHINE
BACHMANN UXBRIDGE
TURBO MACHINE
RODNEY HUNT
UNIVERSAL WINDING
WARNER & SWASEY
TERRELL MACHINE
CROMPTON & KNOWLES LOOM WORKS
KEARNY
REEVES PULLEY
R H HOOD
JAMES SMITH
DRAPER CORP
BARBER-COLMAN
STEEL HEDDLE
MOUNT HOPE MACHINE
RIGGS & LOMBARD
JAMES HUNTER
VAN VLAANDEREN
PROCTOR & SCHWARTZ
ABBOTT MACHINE CO
DAVIS & FURBER MACHINE CO
TEXTILE INDUSTRIES
FLETCHER WORKS
MORRISON MACHINE WORKS
SACO-LOWELL
WESTINGHOUSE ELECTRIC CORP
LINK BELT
COCKER MACHINE
BUTTERWORTH
FOSTER MACHINE
GENERAL ELECTRIC
ASHWORTH
WATSON-WILLIAMS
SYNTHANE
REPUBLIC STEEL
ANDERSON MACHINE
BRIGGS-SCHAFFNER
CONTAINER CORP
MORSE CHAIN
TAYLOR INSTRUMENT
BAKSHAW
HERR, MFG
TEXTILE BULLETIN
WERNER TEXTILE CONS
MARQUETTE
WALTER KIDGE
AMPLEX DIV CHRYSLER
U S TEXTILE MACHINE CO
MAWACO
CENTURY ELECTRIC
HAYSSEN
WHITIN
CHANDLER MACHINE
ARMCO STEEL
UNIVERSAL WINDING
TERRELL MACHINE
WARNER & SWASEY
ROBERT REINER
MILLER WRAPPING & SIMPLEX PACKAGING
CLINTON FOODS
GINSBERG
REEVES PULLEY
R H HOOD
JAMES SMITH
SMITH DRUM & CO
VAN VLAANDEREN
PROCTOR & SCHWARTZ
ABBOTT MACHINE CO
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BAKSHAW
HERR, MFG
TEXTILE BULLETIN
WERNER TEXTILE CONS

You'll meet these exhibitors in Convention Hall, April 26-30, 1954

Abbott 485
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Allentown Bobbin 567
Allis-Chalmers 29
Louis Allis 22
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American Rieter 144
American Schiess 1014
Am. Standard Fabricators. 817
American Viscose 358
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Andrews & Goodrich..78 & 840
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Ashworth 579
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Atkinson, Haserick ..... 146 & Balcony
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Diehl 259
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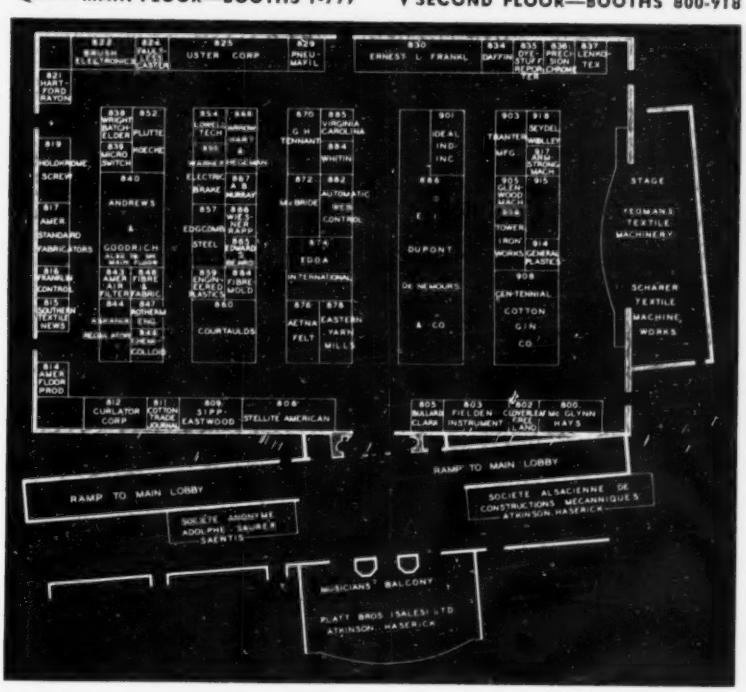
←— MAIN FLOOR—BOOTHS 1-799 **↓ SECOND FLOOR—BOOTHS 800-918**



Here's what you'll see . . . .

suppliers' representatives attending . . . .

and hotels where they are stopping

ABBOTT MACHINE CO., INC. 485
Wilton, N. H.
Exhibiting: An automatic traveling-spindle cone winder; an automatic traveling-spindle quiller with boxing attachment which automatically packs approximately 160 bobbins in a box; automatic radial quiller with pinboard attachment; automatic radial quiller with measured yardage device which controls number of yards of yarn on bobbins to within 1%.
L. S. Ligon, in charge
S. A. Roane, salesman
E. W. Skinner, salesman
L. V. Shalmers, salesman
L. S. Ligon, Jr., supervisor of erection and service
F. L. Hendricks, serviceman
A. P. Apple, serviceman
W. E. Brumley, serviceman
S. I. Abbott, pres.
W. G. Abbott
J. E. Ring, experimental dept.
Hotel: Claridge

ABINGTON TEXTILE MACHINERY WORKS 200
North Abington, Mass.
Exhibiting: Complete automatic vacuum card stripping equipment, including revolving top flat card with automatic continuous web and sliver device, piping, pump, and bottom discharge receiver; automatic comber noil pick-up attachments on comber; weavers' knotters; wool card vacuum stripping motion with tip-up nozzle.
Sumner Smith, treas.
Ernest Clark, fact. mgr.
Sumner Smith, Jr., asst. treas.
Walter W. Watt, sou. agent
John W. Burbine, sales agent
Francis J. Richardson, supt.
Oliver H. Ramo, chief engr.
William W. Brame, sales agent
M. R. Bradley, sales agent
Hotel: Marlborough Blenheim

AETNA FELT CO., INC. 876
New York, N. Y.

AKERS MOTOR LINES, INC. 1006
Gastonia, N. C.
Exhibiting: A map showing operating rights of Akers Motor Lines as they relate to the textile and textile machinery industries; also models of company's equipment, along with literature showing attention given to all phases of service to assure textile shippers fast, efficient, and dependable shipping.
C. Scott Akers, vice-pres., gen. sales mgr.
Charles W. Akers, asst. gen. sales mgr.
Walter H. Harris, dist. sales mgr., Ga.
A. J. Hinton, dist. sales mgr., N. Y.
George R. Fillion, dist. sales mgr., N. E.
John W. Dear, Jr., dir. pub. rel. & adv.
Hotel: Chalfonte-Haddon Hall

ALLEN-BRADLEY CO. 27
Milwaukee, Wis.

ALLEN WARPER CO. 244
Lowell, Mass.
Exhibiting: The G-3 high-speed warper for cotton, rayon, and synthetic yarn—new throughout with new hydraulic method of fingertip control of yarn density with differential of 0 to 1,000 psi, assuring uniform density and up to 33 1/3% more yarn per beam; new push-button variable speed control; choice of either spindle or surface drive, with capacity for beams up to 40" head diameter. The entirely new model H-3 high speed heavy duty beamer which will take one 18-foot beam of carpet yarn type or will handle two or more smaller loom beams at the same time—features patented hydraulic compressor unit which makes possible a 33 1/3% greater load of yarn on each beam as well as assuring uniform density; double-end, constant yarn speed drive with hydraulic control; hydraulic doffing and loading (without moving tailstand). Model C warper; a section of an Allen warper creel; an assortment of beams in models specially engineered for cotton, rayon, nylon, viscose and other high tenacity synthetics.
R. Udell Thornton, pres.
William L. Peterson, sales rep.
Harold Barney, sales rep.
Donald Lafey, sales rep.
J. Edwin Jones, sales rep.
Woodrow Tinsley, sales rep.
Albert Hawkins, sales rep.
Joseph Bowler, sales rep.
Henry C. Nelson, engr.

THE ALLENTOWN BOBBIN WORKS, INC. 567
Allentown, Pa.
Exhibiting: Bobbins and spools for the processing of fine denier yarns such as silk, rayon, nylon, and combination yarns.
Henry W. Mack, vice-pres.
Harold S. Barnes, sec.-treas.
Hotel: The Shelburne

ALLIS-CHALMERS MFG. CO. 29
Milwaukee, Wis.
Exhibiting: An improved card drive with new 184 frame "Quick-Clean" motor—drive is mounted directly on card shaft with torque arm to keep gear box from rotating and utilizes practically same floor space as a tight-and-loose pulley drive; two types of loom motors—one with waste packed bearings and the other with ball bearings; a "Quick-Clean" motor (Type APQ) with normal torque and acceleration characteristics; a "Quick-Clean" motor (Type APQR) with special torque and acceleration characteristics to meet requirements of roving frames and other machines handling material in looser form which will not stand quick starts and high acceleration; "Texrope" drives and control equipment.
R. L. McDermott, estimator
J. F. Jenkins, office mgr.
J. J. Greagan, special rep.
R. W. McKee, display
Hotel: Ritz-Carlton

THE LOUIS ALLIS CO. 22
Milwaukee, Wis.
Exhibiting: A variety of special purpose textile motors, including a totally-enclosed fan-cooled unit designed for use with Saco-Lowell SG-1 spinning frame, a cut-away self-cleaning motor, and a foot-mounted ball-bearing, totally enclosed, non-ventilated loom motor; two newly redesigned units in the open, drip-proof, and totally-enclosed fan-cooled enclosures, designed to meet the new NEMA standards for more power in a smaller, more functional package; two adjustable speed drives in operation.
Louis Allis, Jr., vice-pres.
C. G. Skidmore, vice-pres., sales
R. J. Weesner, asst. chief appl. engr.
W. J. Altschwager, mgr. sales, Select-A-Spede
H. L. Kelley, mgr. sales, Ajusto-Spede
R. A. Zastrow, Ajusto-Spede specialist
B. R. Becker, appl. specialist
J. B. Munson, sales engr.
M. E. Woitekamp, dist. mgr., Atlanta
R. J. Murphy, sales engr., Atlanta
A. V. Barron, dist. mgr., Birmingham
C. T. Nash, dist. mgr., Boston
R. J. Overstreet, dist. mgr., Charlotte
W. C. Conard, dist. mgr., E. Orange
C. O. Abrahamson, dist. mgr., Philadelphia
Hotel: Traymore

ALUMINUM COMPANY OF AMERICA 1
Pittsburgh, Pa.
Exhibiting: A variety of products, including aluminum castings, forgings, extrusions, and other products of general interest to the textile industry.
Charles Braglio, asst. mgr. devlp. div.
H. H. Nuernberger, head, devlp. div.
R. W. Irwin, devlp. engr.
J. B. West, devlp. engr.
Hotel: Claridge

AMERICA'S TEXTILE REPORTER 270
Boston, Mass.

AMERICAN AIR FILTER CO., INC. 843
Louisville, Ky.

AMERICAN DYESTUFF REPORTER 835
New York, N. Y.

AMERICAN FLOOR PRODUCTS CO. 814
Washington, D. C.
Exhibiting: Mats, stair treads, matting.
Everet C. Bentley, owner
E. T. De Vore, sales devlp.
Hotel: Shelburne

AMERICAN LAVA CORP. 21
Chattanooga, Tenn.
Exhibiting: Alsimag thread guides with

Schedule of Events

1954 American Textile Machinery Exhibition
Atlantic City, N. J.

Monday, April 26—Grand Opening. Doors open 10:00 A.M.; close 6:00 P.M.)

Tuesday, April 27—Association Executives Day. (Doors open 10:00 A.M.; close 6:00 P.M.)

Special invitations have been issued to top elected and executive officers of the national, regional, and state textile associations.

Special entertainment is planned for them in the evening.

Wednesday, April 28—Textile Career Day. (Doors open 10:00 A.M.; close 10:00 P.M.)

Featuring textile students and alumni groups and textile foundation officers. Luncheon by ATME Committee for ten winning students of free trip to the show offered by the Committee.

Lowell Technological Institute Alumni Association has planned a meeting on this day at Chalfonte-Haddon Hall.

Thursday, April 29—Research Day. (Doors open 10:00 A.M.; close 6:00 P.M.)

Research directors of the exhibitors will be on hand for consultations.

AATCC research sub-committees and technical committee on research will hold meetings at Hotel Dennis.

Friday, April 30—Closing. (Doors open 10:00 A.M.; close 6:00 P.M.)

metallized areas for soldering to machine, guides in AISiMag 192 (ivory color, considered as standard); AISiMag 586 (same as 192 except chocolate colored to make yarn easy to see), 193 (light blue color, identical to 192 except that material is electrically conductive), 513 (pink color, 9 on Moh's scale, super-hard wearing material), and 491 (a blue colored material same as 513). Exhibit will be divided into two sections to assist visitors to the booth in locating types of guides in which they are most interested—first section will consist of guides arranged alphabetically by textile machinery manufacturer; in next section guides will be displayed by type.
J. B. Shacklett, sales mgr.
Jay S. Gosnell, sales engr.
Joe E. Spearman, sales engr.
Hotel: Claridge

AMERICAN MOISTENING CO. **115**
Providence, R. I.
Exhibiting: The Ameo Cyclestat humidity control with a "change-anticipating" mechanism of increased sensitivity; Model 35 unit humidifier that will evaporate from 0 to 22 pounds of water per hour while circulating 1,200 cu ft of air per minute; unit dry-duct system; ductless evaporative cooling equipment; No. 6 atomizer.
H. B. Bradford, gen. mgr.
M. H. Irons, asst. gen. mgr. & chief engr.
H. R. Rich, sales engr.
N. B. Chase, sales engr.
W. A. Mullins, dept. mgr.
J. H. Waldrip, sales engr.
J. D. Johnson, sales engr.
W. L. Johnson, sales engr.
L. Terry, Jr., engr.
W. C. Everett, sales engr.
M. McCall, dept. mgr.
S. B. Planton, sales engr.
J. Townsend, engr.
Hotel: Shelburne

AMERICAN PAPER TUBE CO. **256**
Woonsocket, R. I.
Exhibiting: Paper tubes, quills, and bobbins for the textile industry; latest developments in "Plasti-Weld" bobbins and plastic tipped automatic loom bobbins.
Harald L. Amrhein, pres. & treas.
Robert J. Guerin, vice-pres.
Dannitte M. Beattie, sales rep.
George M. Sanford, sales rep.
Sam Adams, sales rep.
Hotel: Claridge

AMERICAN RIETER CO., INC. **144**
Arlington, N. J.
Exhibiting: Several machines and accessories from Rieter's large and diversified manufacturing program of machinery for cotton, worsted, wool, artificial, and synthetic fibers.
Rene O. Halter
John F. Dulken
P. Kraehenmann
Noel L. E. Fawcett
Will Best Plowden
D. E. Williams, Jr.
Hotel: Shelburne

AMERICAN SCHIESS CORP. **1014**
Textile Machinery Div.
Stamford, Conn.
Exhibiting: Newly designed German Spinnbau machines for the preparation and spinning of wool, asbestos, jute, linen and worsted yarns, including the "perfect" woolen and worsted spinning frames.
Germinal Giraudi, mgr.
J. J. Keyser, inventor of Spinnbau "Perfect" spinning frame
Theo Gellerman, in charge Spinnbau worsted div.
Herbert Reinhold, in charge Spinnbau woolen div.

AMERICAN STANDARD FABRICATORS CORP. **817**
New York, N. Y.
Exhibiting: Combination single package dyeing and high speed extracting and drying machine in operation; a stainless steel dye beam.
George T. Kreis
Nicholas M. Manfra
G. H. Jerry Boyd

AMERICAN VISCOSE CORP. **358**
New York, N. Y.
Exhibiting: Dramatization of its Avcoset program for the quality control of washable rayon fabrics—procedure for becoming a licensee under the program, the testing procedure used to police it, and the advertising and merchandising being done to promote it; latest developments in the use of rayon staple and filament yarns, acetate yarns, Filatex elastic yarns, and Vinyon staple.
George L. Storm, mgr. rayon staple sales
Malcolm V. Macfarlan, mgr. filament rayon sales

American Viscose continued
John C. Wilmerding, mgr. acetate sales
Frank T. Williams, mgr. tire yarn sales
Thomas H. Andrews, mgr. Filatex and Vinyon sales
John W. Geary Jr., mgr. export sales
Arthur R. Wachter, mgr. of converting rel.
Walter E. Scholer, mgr. fabric devlp. dept.
Frank F. Hilson, mgr. of exhibit.

ANDERSON MACHINE SHOP, INC. **561**
Needham Heights, Mass.
Exhibiting: Pacific evenness tester for testing unevenness and weight of yarn, roving, and sliver; Pacific integrator, for obtaining the coefficient of variation and standard deviation of the material being tested; Pacific raw stock waste and staple cutter.
J. G. Anderson, pres.
G. R. Anderson, vice-pres.
A. G. Anderson, sales mgr.
Hotel: Marlborough-Blenheim

ANDREWS & GOODRICH, INC. **78 & 840**
Dorchester, Mass.

ARMCO STEEL CORP. **292**
Middletown, Ohio
Exhibiting: Extra low carbon stainless steels with explanation of why they protect weld areas from corrosion and stainless steel grades do not; precipitation-hardening stainless steels—workable chromium-nickel types that can be heat treated to exceptionally high strengths and hardnesses; aluminized steel and welded steel tubing, including a special hot-dip aluminum-coated sheet steel that resists combination of heat and corrosion.
G. H. Klouman

ARMSTRONG MACHINE WORKS **917**
Three Rivers, Mich.
Exhibiting: Glass model of Armstrong inverted bucket steam trap, operating on steam at 7 lb pressure, showing how the trap handles air and dirt, as well as condensate; also the Armstrong steam humidifier for use in northern textile mills.
T. H. Rea, sales mgr.
Hotel: Madison

ARROW-HART & HEGEMAN ELECTRIC CO. **868**
Hartford, Conn.
Exhibiting: The Type LM loom switch with a built-for-the-purpose mechanism in a specially designed lint-proof enclosure.
D. B. Reynolds, asst. mgr., ind. control div.
J. C. Ellis, vice-pres.
R. L. Dalton, dist. mgr.
L. Goodwin, dist. mgr.
S. E. Page, dist. mgr.

ASHWORTH BROS., INC. **579**
Fall River, Mass.
Exhibiting: Card clothing for cotton, wool, worsted, synthetic, silk, rayon, and asbestos cards; clothing for all types of napping machinery; breaker clothing and card clothing for special purposes; licker-in and garnet wire; Platt's metallic wire; woven wire conveyor belts.
R. C. Ashworth, Jr., pres.
W. J. Flynn, Jr., vice-pres.
G. R. Ashworth, treas.
A. R. Beehtel, engr.
G. A. Davis, mgr., woolen
F. L. Armitage, sales & service
J. M. Reed, son, mgr.
A. E. Johnston, Jr., mgr., Greenville
J. E. Seacord, mgr., Atlanta
T. F. Hart, sales & service
Henry Ashworth, sales & service
C. E. Lalime, sales & service
Hotel: Chalfonte-Haddon Hall

ASKANIA REGULATOR CO. **844**
Chicago, Ill.
Exhibiting: Askania air-hydraulic cloth guide regulator on a clip type tenter frame.
W. W. Wheeler, sales mgr.
R. J. Matteson, sales rep.
R. J. Kroth, sales rep.
F. J. Markey, sales engr.
Hotel: Dennis

(Continued next page)

THESE WILL BE SHOWN FOR THE FIRST TIME

New variable speed transmission by Cleveland Worm & Gear
Cambering roller method of guiding cloth (Automatic Web)
Slasher with automatic doff feature (Bachmann-Uxbridge)
Printing machine (Butterworth) for easier color register
New design Century fractional and integral hp motors
Butterworth padder featuring standardized roll sizes
Abington continuous web and sliver device for cards
Barber-Colman Super-Speed warper for large beams
Two-color denim automatically woven on C&K loom
Plan for installment financing of machinery (C.I.T.)
Automatic C&K loom for 4 x 1 filament dress goods
New high speed rayon warper by Cocker Machine
60-spindle Barber-Colman large package spooler
66" Barber-Colman Series M warp tying machine
Large package creel for Barber-Colman warpers
Courtaulds' Coloray solution-dyed staple rayon
Abbott quiller with measured yardage device
Barber-Colman 48fSH warp drawing machine
C&K W-3A loom with Select-A-Pic mechanism
New Griffin size box (Bachmann Uxbridge)
Cloverleaf-Freeland's Top-Flight bobbin
Abbott quiller with boxing attachment
Grey flannel mix woven on C&K loom
Arrow-Hart & Hegeman loom switch
2 x 1 upholstery fabric loom by C&K
Allis-Chalmers improved card drive
Abington wool card tip-up nozzle
New C&K narrow fabric loom

ATKINSON, HASERICK & CO. 146
Boston, Mass.
(See Platt Bros., Balcony; Platte, Koecke & Co., 852; Societe Alsacienne de Constructions Mecaniques, Corridor, second floor.)

AUTOMATIC WEB CONTROL CO. 882
Oklahoma City, Okla.
Exhibiting: Complete line of automatic cloth guiding equipment—cambering roller method permits cloth to be guided at top speeds sufficiently accurate to enable the printing of a legend on the selvage; pneumo-hydraulic power unit is capable of correcting as much as 2 inches per second.
Irwin L. Fife, pres.
Hotel: Madison

BACHMANN UXBRIDGE WORSTED CORP. 712
Uxbridge, Mass.
Exhibiting: The new Uxbridge automatic slasher front end with automatic doffing feature; the Uxbridge Model B air dryer for slashers; the new Griffin size box.
Harold E. Smyth, asst. gen. mgr.
Paul J. Wenzel, engr.
Ira L. Griffin, sales rep.
Edward S. Creighton, div. mgr.

W. H. BAGSHAW CO., INC. 80
Nashua, N. H.
Exhibiting: Picker lags and pins for textile machines.
Thomas W. O'Day, supt.
Mark H. Bagshaw, salesman
Arthur H. Rogers, salesman
Hotel: Dennis

THE BAHNSON CO. 11
Winston-Salem, N. C.
Exhibiting: Scale models of Bahnson's Humiduct Centrispray, and central station air conditioning systems; components manufactured by Bahnson, including automatic controls, grilles, dampers and damper motors, fans, automatic suction strainers for air washers, and automatic lint filters; humidification equipment for complete systems, boosting existing systems, spot humidification, and for laboratories will be demonstrated by Bahnson Type E and centrifugal humidifiers and pneumatic atomizers in operation; the Allred Cleaner, a fully automatic traveling cleaner for blow-down of ceilings and all overhead surfaces will be in operation; also, at least two other types of automatic cleaners.
Agnew H. Bahnson, Jr., pres.
W. M. Fulp, export mgr.
R. T. Hodgdon, sales dept.
H. J. Haslam, sales dept.
R. M. Anderson, sales dept.
Hotel: Ritz-Carlton

BARBER-COLMAN CO. 105 & 377
Rockford, Ill.
Exhibiting: The 60-spindle Type "D" spooler developed for use especially with large package spinning—it will spool packages weighing up to 6.60 pounds; the DW Super-Speed warper capable of running beams with head diameters up to 40 inches; the DC large package creel which is necessary to accommodate the 6.60 pound cheese produced on the Type "D" spooler; the 66 M warp tying machine that will tie warps up to 66 inches in width in one load; 48 fSH warp drawing machine which draws warps through as many as four banks of drop wires, 18 harnesses, and the reed in one single continuous operation; the standard 15 L portable warp tying machine.

R. G. Ross	E. W. Rogers
Wm. Bauer, Jr.	R. W. Butler
H. G. Hoffman	J. C. Ballard
W. P. Turner	J. F. Carter
F. R. Lincoln	L. L. Lideen
J. G. Pike, Jr.	J. Savage
F. D. Taylor	R. W. Cotta
N. H. Alford	E. C. Curran

Hotel: Shelburne

BARCO MFG. CO. 1020
Barrington, Ill.
Exhibiting: Steam revolving or rotary joints; flexible ball joints; self-aligning swivel joints; swing joints.
J. O. Heyworth, sales mgr.
F. M. Moore, sales devlp. mgr.
B. T. Conshear, Phila. rep.
D. R. Whitehead, N. Y. rep.
R. E. Mason, Carolina rep.
George Garland, N. E. rep.
Hotel: Dennis

BARRELED SUNLIGHT PAINT CO. 262
Providence, R. I.
Exhibiting: Barreled Sunlight paints and enamels.
Howard F. Eastwood, vice-pres.
Alexander S. West, gen. sales agent
Fred McCarthy, gen. sales mgr.
Henry A. Solie, asst. gen. sales mgr.
C. L. Park, sou. dist. mgr.
Paul P. Tuthill, rep.
Hotel: Shelburne

EDWARD S. BEARD 865
Spring City, Pa.
Exhibiting: Fixed width and adjustable spreaders for knitted and woven fabrics; an aluminum poteye; also a machine for pulling or unrolling cloth, either from rolls or bundles, into trucks to facilitate its delivery to dye kettles or kiers, for separating one type of cloth from another, for pulling directly into kiers or in and out of extractors.
Edward S. Beard, owner
LeRoy Krasley, partner
Hotel: The Madison

BIJUR LUBRICATING CORP. 263
Rochelle Park, N. J.
Exhibiting: Seven types of textile machine lubricators; large schematic diagrams showing how one oil pump and a single-line distribution system supplies oil for all bearings, gears, linkages, and sliding surfaces embodied in any given machine; operating demonstrations of both automatic and manual systems.
J. B. Henderson, sales devlp.
W. Q. Timpson, north. rep.
A. S. Cherevko, north. rep.
Clyde M. Lassiter, sou. rep.
Harrell J. Auten, sou. rep.

BIRCH BROS., INC. 397
Somerville, Mass.
Exhibiting: "Supreme" butt-seam grey room portable sewing machine; "Coronation" high-lift motor-operated portable chain stitch sewing machine for bulky fabrics such as carpets; "Excel" portable chain stitch sewing machine, foot-operated; standard tacking machine head that eliminates vibration and is capable of speeds up to 35 ypm; ball bearing counter-balanced tacking machine head with selvage uncurling rolls capable of speeds to 60 ypm.
High speed ball bearing scutcher for opening cloth; brass scrimp rail with fine threads for removing wrinkles and turned selvages; an angular guide for guiding the cloth and keeping material free from wrinkles; a conical opener or spreader used in open width dyeing; adjustable spiral opening roll unit for removing wrinkles and turned selvages;
A three-bar curved rubber expander for stretching the goods; a bristle stretcher brush for stretching goods and removing wrinkles; adjustable slot vacuum extracting box with automatic ring type slot seals for extracting fabrics from sheer nylons to cotton carpets; a model of a two-roll padder; also photos of a two-roll quetsch, continuous open width machine for scouring, dyeing, crabbing, etc., singeing machine, cotton carpet finishing range, and cloth opening and vacuum extracting range floor mounted.
Harold W. Birch, mgr.
Clifford W. Birch, Jr., sales engr.
Richard Briggs, sales engr.
Francis W. Birch, salesman
Hotel: Chalfonte-Haddon Hall

CHARLES BOND CO. 1030
Philadelphia, Pa.
Exhibiting: Bondaron special tanned leather loom strapping, including check straps, harness straps, hold-up straps, bumper straps, bunters, etc.; Bondaron friction leather, round and flat leather belting; Bondaron Red Head pickers; stock gears and related products.
C. Carter Bond, vice-pres.
Charles C. Bond, Jr., gear dept. mgr.
Walter S. Whiteman, sales rep.
Elwood Farley, sales rep.
Fred Neal, sales rep.

BENJAMIN BOOTH CO. 347
Philadelphia, Pa.
Exhibiting: Straight and bent tooth Strip-O-Matic card clothing; a machine producing bent tooth Strip-O-Matic card clothing at reduced speed to afford spectators better observation; high speed movies to give viewers an easy-to-follow picture of the carding process and doffing by the comb.
E. A. Snape, Jr., pres. & treas.
Robert Todd, supt.
N. E. Aderhold, rep.
Oliver D. Landis, sou. agent
Charles G. Stover, sou. agent
W. H. Martin, Canadian agent
Hotel: Marlborough-Blenheim for all except Mr. Todd who will be at the Claridge.

BRIGGS-SHAFFNER CO. 559
Winston-Salem, N. C.
Exhibiting: Aluminum tricot beams for nylon; aluminum section beams for nylon; aluminum section beams for rayon; aluminum loom beams for nylon; quill boards for Abbott winders; and other anodized aluminum products.
Paul H. Johnson, sales engr.
C. A. Sinquefield, plant engr.
Hotel: Crillon

BRUSH ELECTRONICS CO. 822
Cleveland, Ohio
Exhibiting: Uniformity Analyzer and Automatic Evaluator used for high speed testing of variations in weight per unit length of yarn, roving, and sliver; a new instrument—the Tension Analyzer for continuous testing of variations in tension from 4-200 grams in any filament, yarn, or wire, recording results permanently.

D. M. Gaskill	A. J. W. Novak
A. W. Ondis	E. Hensley
D. C. Lynch	L. Anderson
A. J. Walcutt	H. Schechter
W. R. Stern	M. Meinzer

Hotel: Marlborough-Blenheim

THE BULLARD CLARK CO. 805
E. H. Jacobs Northern and Southern Divs.
Danielson, Conn.
Exhibiting: Complete line of weaving loom supplies, including lug straps of rubber, canvas, and wood; picker sticks of "Plyweld," other laminates, and hickory; sweepsticks and connectors of canvas, rubberized fabric, rubber and "Plyweld" combination, and hickory; leather and fabric straps and strapping; dobby cords; hold-ups; pickers; bumpers; race plates; jack sticks; binders; swells; cloth roll blocks; brake lining; sand and take-up roll covering. Featured will be the Jacobs "Verybest" thread cutter.
Edward J. Bullard, pres.
William R. Muller, sales mgr.
William Lundgren, research engr.
A. M. Romero, export agent & distb.
Hotel: Dennis

THE BUNTING BRASS & BRONZE CO. 69
Toledo, Ohio
Exhibiting: Bronze bearings used in all kinds of textile machinery, including cutaway models showing various types of bearing installations and revealing the manner by which correct bearing design and alloy facilitate operation and maintenance.
R. R. Hirsch, vice-pres., sales
B. Van Steenburgh, sales mgr.
W. J. McTighe, N. E. sales rep.
W. C. Bracken, sales rep.
Hotel: Traymore

BURLINGTON ENGINEERING CO. 9
Graham, N. C.

H. W. BUTTERWORTH & SONS Co. 539
Bethayres, Pa.
Exhibiting: Scale model of new type printing machine designed for easier color register; improved type Simpson cut-off winder; cylinder drying machine featuring improved cylinders of copper or stainless steel, coded or uncoded; pressure boil-off jig; embossing calender; padder featuring standardized roll sizes.
J. Ebert Butterworth, pres.
DeHaven Butterworth, vice-pres. & sales mgr.
Frederick N. Spoerl, asst. sales mgr.
Thomas H. Davis, Jr., sales engr.
DeHaven Butterworth, Jr., sales engr.
J. Hillman Zahn, mgr., sou. office
Wallace Taylor, mgr., N. E. office
C. Eugene Hunter, Jr., sales engr.
Edward S. Pierce, gen. mgr.
Stanley Brooks, chief engr.
James E. Butterworth, Jr., sales engr.
J. J. Sindle, mgr. rayon div.
Hotel: Traymore

C. I. T. CORP. 320
New York, N. Y.
Exhibiting: Representatives will be available to answer questions on installment financing of machinery.
S. D. Maddock, pres.
R. S. Murphy, vice-pres.
E. T. Neville, vice-pres.
C. E. Trudeau, asst. vice-pres.
D. C. Brown, asst. vice-pres.

A. B. CARTER, INC. 38
Gastonia, N. C.
Exhibiting: Boyce weaver's knotters; spinning and twisting travelers.
E. L. Ramsey, vice-pres.

A. B. Carter continued

E. Haines Gregg, sec.
C. H. Herrick, N. E. rep.
J. B. Carter, asst. prod. mgr.
R. A. Haynes, special rep.
W. L. Rankin, sales engr.
P. L. Piercy, sales engr.
J. W. Brown, sales engr.
J. K. Davis, sales engr.
D. E. Phillips, sales engr.
Hotel: Claridge

CEN-TENNIAL COTTON GIN CO. 908
Columbus, Ga.
Exhibiting: The Cen-Tennial textile fiber opener, a machine which opens, cleans, and blends all textile fibers and reduces waste by more than 25% at this process; the Cen-Tennial textile separator that draws stock from the opener, thoroughly airing and cleaning it at the same time; Cen-Tennial Aerator, a machine that opens, aerates, and cleans all textile fibers; steel blending feeder; steel feed table.
S. K. Dimon — J. Edward Brown
Allen Harmon — McDowell McLeod
Hotel: Shelburne

CENTURY ELECTRIC CO. 126AA
St. Louis, Mo.
Exhibiting: Two selective speed drive units (one of them set up to act as a synchro-speed transmitter) and two slip ring motors (receivers); a selective speed power unit operating four Century motors; line of lint-free textile motors; new design Form F fractional horsepower motor; new design integral horsepower motors.
R. N. Hill, vice-pres.
G. C. Henderson, gen. sales mgr.
E. S. Moore, dir. of sales
Fred Powers, asst. sales mgr.
G. A. Bumann, tex. specialist
W. J. Nace, appl. engr.
R. E. Lynch, dist. mgr.
T. K. McKamy, appl. engr.
Burton Tebo, Atlanta office
W. C. Kohl, dist. mgr.
D. H. Schacht, appl. engr.
A. Neher, sales prom. mgr.
P. Gerst, asst. sales prom. mgr.
H. McInerney, asst. sales prom. mgr.

CHANDLER MACHINE CO. 291
Ayer, Mass.
Exhibiting: A permanent pleating machine; also a power pinking-swatch cutting machine.
R. G. Maxant, sec.
Hotel: Traymore

CHEMICOLLOID LABORATORIES, INC. 846
New York, N. Y.
Exhibiting: The Charlotte Colloid Mill—a laboratory and pilot plant model ND-2 and a production model ND-5—for preparation of printing pastes and dyehouse blends, sizings, resin and other finishes.
David F. O'Keefe — E. E. Ball
Leroy E. Putnam — Walter H. Behrens
Hotel: Chalfonte-Haddon Hall

CHRYSLER CORP. AMPLEX DIV. 16AA
Detroit, Mich.
Exhibiting: Oilite heavy-duty, oil cushioned, self-lubricating bearings, cores and bars; Oilite finished machine parts; Oilite permanent filters; Oilite friction units.
A. J. Langhammer, pres.
D. B. Martin, vice-pres. & gen. sales mgr.
K. H. Kuhlen, sales mgr.
C. J. Zotter, adv. mgr.
J. C. Tarbell, J. C. Tarbell Assoc.
G. E. Platzer, J. C. Tarbell Assoc.

CLARK-CUTLER-McDERMOTT CO. 1005
Franklin, Mass.
Exhibiting: Anti-vibration machine floor pads requiring no bolting or cementing; reusable, the pad is made from layers of cork and sisal impregnated with Bakelite vinyl resin and withstands oils, greases, alkalies.
Roland McDermott, vice-pres.
Robert Schmitt, chief engr.
M. J. Murray Stevens, chief chemist
Hotel: Ritz-Carlton

THE CLEVELAND GRAPHITE BRONZE CO. 364
Cleveland, Ohio
L. W. Christenson, vice-pres. sales
C. A. Williams, sales mgr.
Drew McKenna, N. Y. dist. sales mgr.
L. A. Douglass, N. Y. dist. sales rep.
H. P. Gusdane, N. Y. dist. sales rep.
E. J. Budinger, asst. chief prod. engr.
E. Crankshaw, chief engr.
Hotel: Ambassador

THESE WILL BE SHOWN FOR THE FIRST TIME

Balanced single head multiple-delivery Holdsworth gill reducers
Minneapolis-Honeywell pneumatic thermometer controller
Apertured reflector for up and down lighting (Miller Co.)
Mawaco 16 jack three-position head for pile fabric looms
Manton-Gaulin automatic recording pressure controller
Mercury switch thread break detector (Micro-Switch)
Macbeth executive daylight lamp for desk top service
Miller Co.'s dust and vaportight fluorescent fixtures
No. 20 Universal tenter clip (Marshall & Williams)
Single-stage homogenizing valve (Manton-Gaulin)
Walter Kidde single end cord processing machine
New single-cylinder decating machine (Mawaco)
New multi-purpose calender by McKiernan-Terry
Mogulectric metalizing gun (Metalizing Co.)
"Jet Mixer" for printing inks, etc. (Hermas)
Hunter Barotor for piece dyeing synthetics
Controlled tension automatic jig by Hunter
Heavy duty inspection machine by Hermas
New type wood section beam by Hubbard
New spinning frame motor by Louis Allis
Rotary pressure joints by Johnson Corp.
Hobbs-Alquist constant tension winder
Holdsworth balling head gill reducer
Louis Allis line of rerated motors
James Hunter's Vapojet dryer
Three-roll padder by Hunter
Ideal's new drawing frame
Holdsworth top breaker

THE CLEVELAND WORM & GEAR CO. 608
Cleveland, Ohio
Exhibiting: Worm gear speed reducers of standard and special design; worm gearing of all types for industrial applications; a new variable speed transmission made under Kopp patents in ½ through 10 hp sizes that is a compact, in-line drive for textile applications; Farval centralized lubrication systems for both grease and oil.
Leo O. Witzenburg, gen. sales mgr.
Dorsey H. Rowe, adv. mgr.
G. T. Collatz, office mgr., Boston
J. T. Gordon, office mgr., N. Y.
William M. Stilwell, Jr., office mgr., Phila.
Hotel: Shelburne

CLINTON FOODS INC. 54
Clinton, Iowa
A. C. Junge — Grady Gilbert
R. C. Rau — B. L. Estes
W. E. Wentworth — C. F. Cline, Jr.
E. F. Patterson — J. Frank Rogers
Hotel: Dennis

CLOVERLEAF-FREELAND CORP. 802
Hazleton, Pa.
Exhibiting: The new Top-Flight bobbin, an all-Bakelite winder spinner bobbin; molded barrel take-up shaft; all-aluminum take-up shaft; mandrels, and other accessories.
Travis Coxe, sales mgr.
William H. Miller, vice-pres.
R. F. Makepeace, N. E. rep.
Hotel: Dennis

COCKER MACHINE & FOUNDRY CO. 535
Gastonia, N. C.
Exhibiting: New high speed rayon warper; high speed cotton warper; high speed tricot warper; magazine and single end creels; slashing equipment; stainless steel work.
John Cocker, vice-pres.

Cocker Machine continued

D. L. Friday, vice-pres.
F. H. Cunningham, salesman
P. E. Sherrill, elec. engr.
T. F. Suggs, chief engr.
Orville Davis, erector
James Etheredge, erector
James Schrumm, erector
E. P. Friday, erector
Don Shepherd, asst. purchasing agent
Hotel: Ambassador

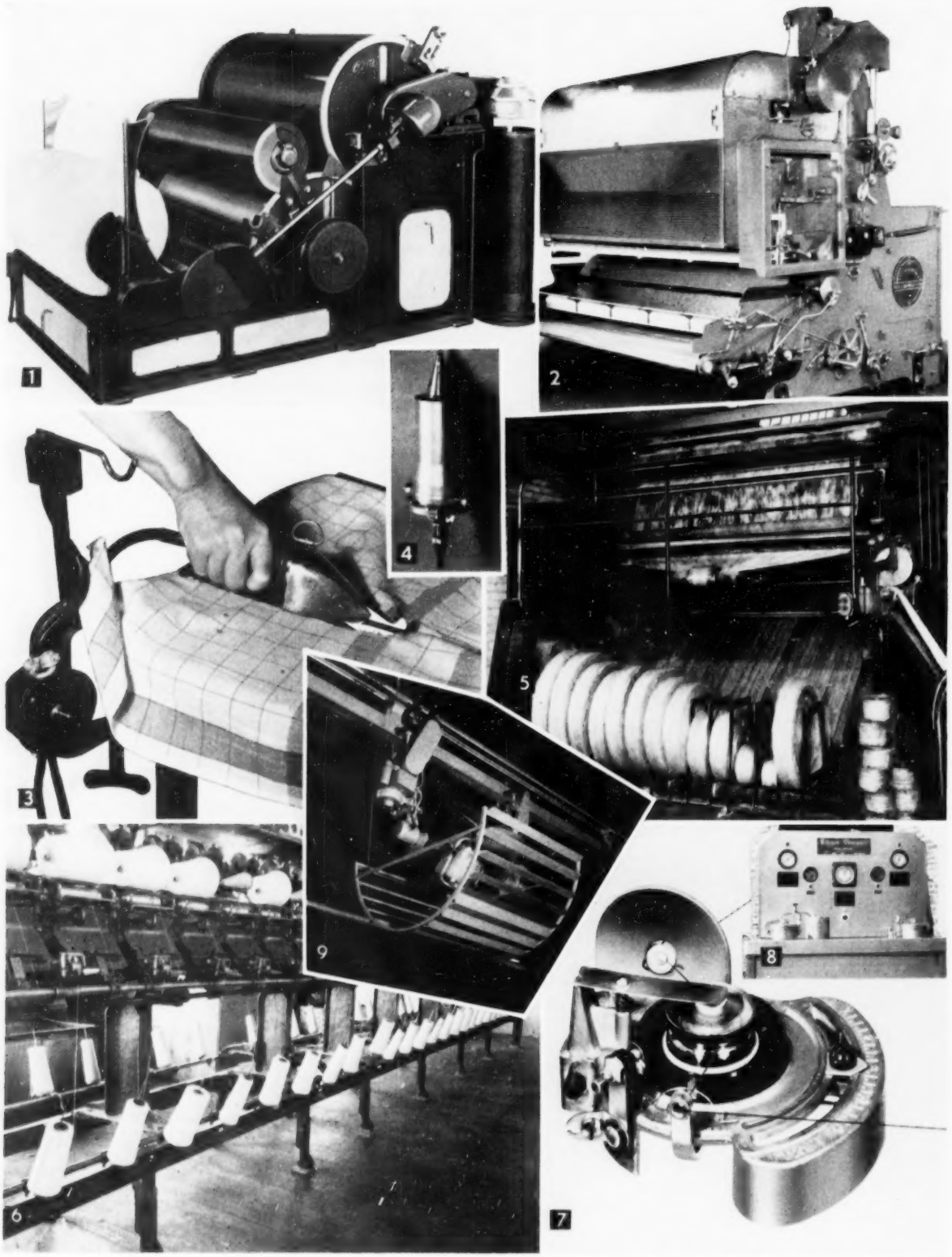
COLLINS BROS. MACHINE CO. 8
Pawtucket, R. I.
Exhibiting: A twister, one side wet and the other side novelty.
Henry Collins, pres.
Karl H. Inderfurth, sou. rep.
B. F. Collins, Jr. sales
J. P. Veach, sou. rep.
Hotel: Marlborough Blenheim

CONTAINER CORPORATION OF AMERICA 557
Philadelphia, Pa.

CONTINENTAL-DIAMOND FIBRE CO. 271AA
Newark, Del.
Exhibiting: Spartan and other fibre trucks; boxes (fibre and dilecta); fibre cans and barrels; Celoron textile parts, including pot eyes, loom parts, gears.
C. L. Simmons, Jr., sou. dist. sales mgr.
Dick Crist, receptacles rep.
F. L. Cooper, asst. gen. sales mgr.
Olan Thomas, adv. mgr.

COOK-P & N MACHINE CO., INC. 73
Boston, Mass.

CORN PRODUCTS SALES CO. 1025
New York, N. Y.
Exhibiting: A back drop showing samples of the products recommended.
H. Baker — A. Simpson
H. Harris — L. Kelley
J. Kulz — W. Joyner
W. Bailey — P. Donaghy
J. Hill — A. Harden



1. Platt's single roller card developed especially for processing synthetic fibers.

2. Improved Type G Bramwell feeder for woolen cards by Geo. S. Harwood & Sons (will be operating in Davis & Furber booth, feeding an 84" woolen card).

3. "Sciss-O-Matic" automatic electric scissors to be displayed by Ginsberg Machine Co.

4. Landolt 2-for-1 twister spindle with SMM bolster for installation on existing machines (Gubelin International).

5. Spinnbau jute carding machine; U. S. agent, American Schiess Corp.

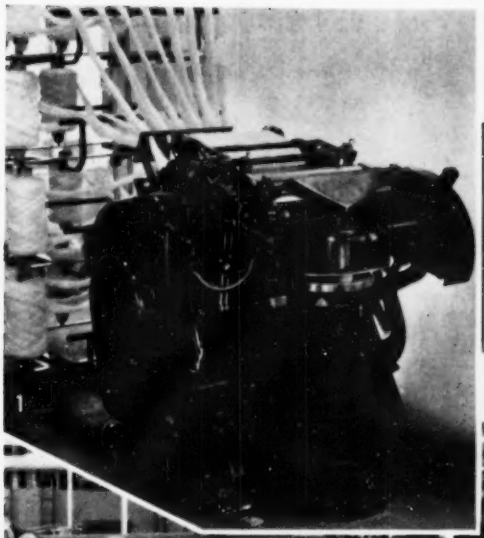
6. Winder mounted on "Airloc" anti-vibration pads which require no bolting or cementing; pad material manufactured by Clark-Cutler-McDermott.

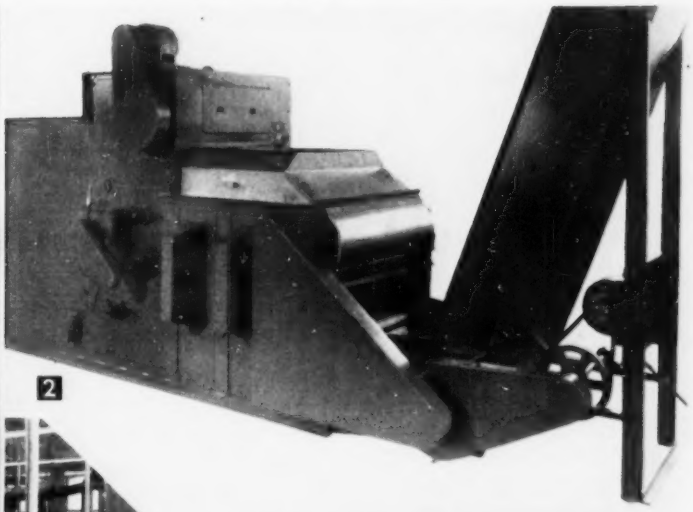
7. The Kidde warp compensator.

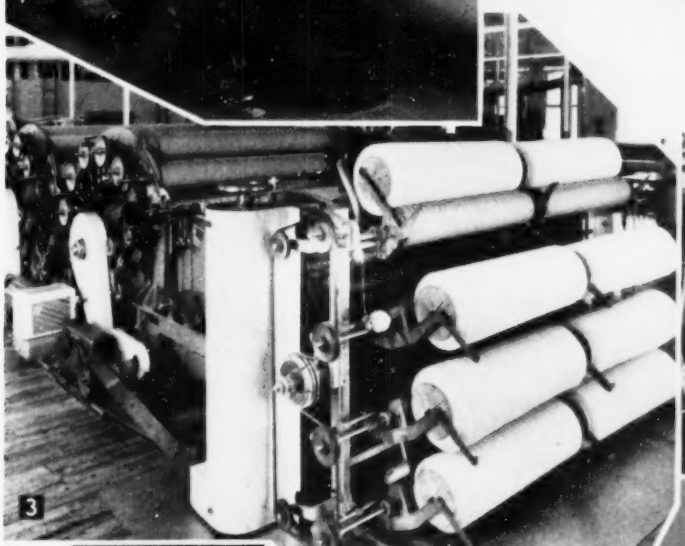
8. Stienen Obermaier combination single package dyeing and high speed extracting and drying machine to be in operation at American Standard Fabricators Corp. booth.

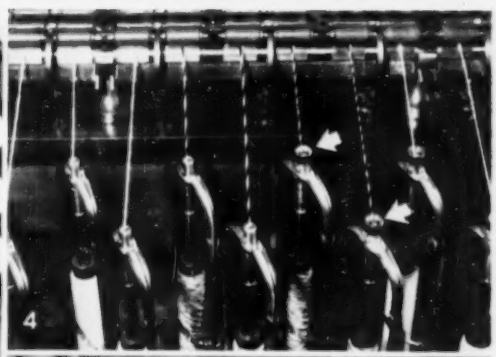
9. Bahnson Allred cleaner for overhead surfaces.

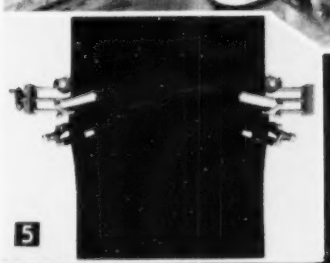
Look for this equipment at the Big Show

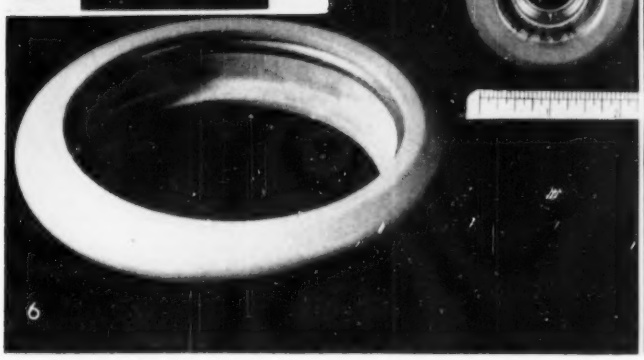












1. Sant' Andrea rectilinear comb, Model PSL to be operating at the Ernest L. Frankl booth.
2. Unitint machine for applying fugitive dyes to raw stock (Dodenhoff and Textile Equipment Corp.).
3. Davis and Furber Model L-1 high speed four-bank double apron tape condenser.
4. Close-up of roving frame, showing effect of Rotaflyer attachment on flyers (arrows point to flyers with device); to be displayed by Stellite American.
5. Mount Hope selvage uncurling and cloth guiding equipment.
6. Nylon redraw cap for 1⅞" pirns (Synthane).
7. Close-up of Universal Winding Company's Unirail uptwister.

THE COTTON TRADE JOURNAL 811
Memphis, Tenn.

COURTAULDS, INC. 860
New York, N. Y.
Exhibiting: A golden bird cage with a live parakeet to symbolize the fact that Coloray solution-dyed rayon staple has "captive color, the color that can't escape"; a visual explanation display unit containing test tubes of actual colored rayon staple and simplifying in visual form basic principles of solution dyeing; upholstery and drapery fabrics woven of 100% Coloray; an actual demonstration of the colorfastness of Coloray; also, live and informal modeling of garments made of fabrics of 100% Coloray or Coloray blends.
A. A. Macdonald, vice-pres., sales
A. H. Marriott, sales dept., N. Y.
W. H. Ward, rep., sou.
T. G. Ethridge, rep. sou.
G. V. Lund, mgr., cust. ser. dept.
R. Dunford, dir. of devlp. & public rel.
Rose Fox, devlp. & pub. rel. dept.

WILLIAM CRABB & CO. 339AA
Black Mountain, N. C.
Exhibiting: Samples of textile pins, lag sections, etc.
Arthur P. Sommer, sales mgr.
J. C. Bennett, Sr., pres.
J. C. Bennett, Jr., vice-pres.
Hotel: Shelburne

CROMPTON & KNOWLES LOOM WORKS 323
Worcester, Mass.
Exhibiting: A narrow fabric loom weaving zipper tape; an entirely new W-3A loom equipped with a Select-A-Pic mechanism with which many pick and pick weaves may be woven automatically; one of the latest Jacquard looms; and five new looms—one weaving a gray flannel filling mix, one automatically weaving a two-color denim, one automatically weaving 4 x 1 filament dress goods, a loom developed for 4 x 1 spun rayon blends, and a 2 x 1 loom weaving upholstery fabrics.

F. W. Howe, Jr.	Allan S. Hutchins
Harold R. Wing	Albert Palmer
Joseph F. Molloy	John C. Irvin
John H. Doyle	Arthur M. Herman
W. C. Howe	William O. Fisher
James E. Hewitt	Herbert V. Foster

Hotel: Marlborough-Blenheim

CURLATOR CORP. 812
East Rochester, N. Y.
Exhibiting: Rando-Feeder and Rando-Webber, Model 40—non-woven machinery for producing non-oriented web—operating at scheduled intervals; photos and flow charts of the Model 60 (60" web) and the Model 84 (84" web); sample products which can be produced from random webs.
J. W. Ingle, treas.
H. H. Langdon, vice-pres.
F. M. Buresh, sales engr.
R. E. Marks, sales engr.
Hotel: Chalfonte-Haddon Hall

CURTIS & MARBLE MACHINE CO. 134
Worcester, Mass.
Exhibiting: Type 54 air-operated cloth folding machine featuring heavier construction, 11" capacity, small pivoted air cylinder, Vari-speed drive with 25 ypm range, driven unrolling roll at back with Vari-speed drive for feeding in, 2½ feet less floor space front to back, ½ yard crank making 1 yard folds, smooth running; also a new design Type DS rolling head with Hetherington Super Air Guiders and "Taker Outers" at entering end of folding machine.
Walter F. Woodward, sou. rep.
Robert E. Steere, N. E. rep.
Leland F. Remington, gen. supt.
Frank MacKay, road mgr.
Roger H. Marble, sec.
George E. Marble, vice-pres.
Ralph Gamble, engr.
Frederick Travers, service mgr.
Hotel: Marlborough-Blenheim

CUTLER-HAMMER, INC. 427
Milwaukee, Wis.
Exhibiting: A complete line of motor controls and accessories—a-c magnetic starters for single phase and squirrel cage coil motors (these controls have 2 and 3 coil overload relays, include various types of cover control, have optional unit interlocks, and vertical "dust safe" contacts); a "lint tight" loom switch; a new line of standard duty push-button stations with pilot light; and a motor circuit switch which mounts in a considerably smaller space than conventional switches.
P. S. Jones, vice-pres. in charge of sales
F. A. Wright, sales mgr., dist. sales
M. R. Grice, div. mgr. industrial sales
J. A. Anderson, dist. sales mgr.
J. P. Simon, dist. sales mgr.
G. E. Hunt, dist. sales mgr.
W. E. Addicks, dist. sales mgr.
F. A. Miller, Jr., branch sales mgr.
W. M. Reese, branch sales mgr.
F. L. Sheram, appl. engr.
R. H. Hanson, appl. engr.
C. V. Topliffe, appl. engr.
C. C. Corey, appl. engr.
A. E. Bahrt, appl. engr.
K. F. Firchow, appl. engr.
R. J. Keeley, appl. engr.
C. D. Capelle, appl. engr.
C. L. Wymelenberg, adv. dept.
Hotel: Claridge

DAFFIN MANUFACTURING CO. 834
Lancaster, Pa.
Exhibiting: "Hum-O-Zone" Model H-300B high capacity industrial humidifier; Model 500CD industrial humidifier.
P. A. Herr, dir. of engr.
R. W. Dickinson, dir. air conditioning div.
Hotel: Claridge

DAILY NEWS RECORD 350
New York, N. Y.

DAVIS & FURBER MACHINE CO. 463 & 467
North Andover, Mass.
Exhibiting: In operation the 84" three-cylinder Model L woolen card featuring elimination of many change gears, reduced downtime for lubrication, and addition of many variable speed devices for accurate control of quantity and quality; improved Model F wool spinning frame equipped with paper tube spindles and a new gravity feed ring oiling system; 10" wide sample card for determining the qualities of fiber blends and testing blends for color purposes; the Model 60 electro-pneumatic warp spooler; and the Model L-3 Simplex napper, a 24-roll, double-acting machine for use in woolen fabric and blanket mills. These machines will be in operation.

A. W. Reynolds	James Mansfield
Davis Simpson	Edward Salesky
Irving Howes	Henry Newby
J. Newton Frye	Thomas Rockwell
John Kooistra	Albert P. Gendron
Louis Russiere	J. Pickering, Jr.
John C. Cantlin	G. A. Connelly
Elwyn Atwood	William Baxter
Eugene Bramshall	Russell Chase

Hotel: Dennis

DAVISON PUBLISHING CO. 368
Ridgewood, N. J.
Exhibiting: Directories and other publications covering all phases of the textile industry.

DIEHL MANUFACTURING CO. 259
Somerville, N. J.
Exhibiting: A new ¾ hp Diehl power transmitter developed especially for loom conversions; a special purpose loom motor with built-in flywheel; a vertical twister motor; a 20 hp air-cooled motor for the Saco-Lowell Gwaltney spinning frame; power transmitter developed especially for tricot knitting machines; fractional and integral horsepower transmitter for general purpose use on machinery requiring rapid and controlled starting and stopping; new N.E.M.A. frame size integral horsepower general purpose motors; screenless (lint-free) motor; extended bearing motor for industrial dryers; and an assortment of fans.
W. O. Langille, vice-pres.
C. P. Bruder, director
F. A. Kolyer, asst. to vice-pres.
A. R. Booth, asst. sales mgr.
J. S. Wood, mid. Atl. dist. mgr.
W. G. Stainton, sou. dist. mgr.
H. W. Kloth, adv. mgr.
W. B. Hunter, motor sales
R. D. Ingalls, chief engr.
E. P. Turner, chief devlp. engr.
L. A. Wendell, devlp. engr.
W. J. Parish, asst. to chief engr.
A. J. Murphy, field ser. mgr.
Hotel: Ritz-Carlton

W. D. DODENHOFF CO., INC. 601
Greenville, S. C.
Exhibiting: Fiber Meter automatic blending machinery; Unitint fiber tinting machinery.
Mrs. W. D. Dodenhoff, pres.
William F. Leineweber, Jr., vice-pres. & gen. mgr.
R. E. King, engr. sales mgr

W. D. Dodenhoff continued
W. M. Egbert, engr. sales rep.
A. V. Moody, engr. sales rep.
Hotel: Shelburne

DRAPER CORPORATION 108 & 222
Hopedale, Mass.
Exhibiting: The X model series of looms weaving a variety of fabrics and emphasizing their versatility (not only the ability of the various models to handle many fabrics with no mechanical changes, but also how, by making minor construction changes, many more styles can be successfully woven); three looms with arches eliminated; a cotton loom on which the worm crank, racks and gears are eliminated on the wind-up, take-up gearing has been changed to bevel type gears encased in a housing and run in oil, take-up roll is adjustable so that it can be changed from conventional high roll to nutting bar type simply and cheaply, filling motion can be easily changed from center to side fork and vice-versa, and drive gearing operating in an oil bath; one loom completely equipped with anti-friction bearings and oilless type bearings; one loom with automatic lubrication to 25 or 30 points; an "E" model loom equipped with a ¾ hp Draper-Diehl power transmitter and a method for controlling the bang-off; a new antifriction spindle; a new tension adjustment device for the clock spring top; a compound driven let-off having a wide range of picks, and that will operate from full to empty beam without attention on most fabrics; and many other improvements to increase production and lower maintenance and labor costs.

Thomas K. West	Wilton Kilgore
William K. Child	L. M. Newell
Walter Mitchell, Sr.	Harry Foster
W. F. Northrop	Jose Via
Donald Marshall	J. B. Jackson
J. Craig Huff	

Hotel: Ritz-Carlton

DUESBERG-BOSSON OF AMERICA, INC. 603
Jefferson, Mass.

E. I. DU PONT DE NEMOURS & CO., INC. 886
Wilmington, Del.

DURANT MFG. CO. 261
Milwaukee, Wis.
Exhibiting: An electrically operated predetermined counter, "SP-MF", for controlling production to exact quantities required; improved pick and bank counters; electric contactors; standard textile counters, including rotary, end and angle drive, double deck, predetermined (mechanical), lineal yardage, Doffmeters, electric printing yardage, and stroke.
R. B. Winkler, vice-pres. & sales mgr.
Leo A. Nourie, sec. & east. div. sales mgr.
J. K. McGinley, regional sales mgr.
James Glista, sales, Providence
Robt. G. O'Connell, sales, Boston
William H. Burr, N. Y. rep.
John L. Baker, Phila. rep.
Hotel: Marlborough-Blenheim

EASTERN YARN MILLS 878
Brooklyn, N. Y.

EDDA INTERNATIONAL CORP. 874
New York, N. Y.
Exhibiting: The Titan warp tying machine and the Excelsior reed grinder and brusher.
B. Gudjonsson, pres.
H. A. Nagel, vice-pres.
H. Lindquist, rep.
Hotel: Ritz-Carlton

EDGCOMB STEEL CO. 857
Philadelphia, Pa.
Exhibiting: Stainless steel sheets, strip, plates, angles, tubing and pipe, fastenings and fittings; high carbon annealed and tempered strip for Drawtex; drop and heddle wire; low carbon heddle frame parts; stainless heddle and reed wire; stainless strip for reed frames; jack, comb, cleat, and sinker steel; carbon seamless mechanical tubing; carbon steel sheets and coils; coated sheets; cold finished bars; hot rolled products; aluminum structurals, flat rolled, tubing and fastenings, and fittings.

Carl S. Vogel	Robert A. Shattuck
John B. Owen	J. A. Van Hook
Leslie Edgcomb, Jr.	Frank F. Rose
Walter S. Lutz	W. R. James
Harry I. Lutz	Thomas A. Wilder
Stuart B. Mathews	Joseph J. Drexler
Peter B. Kline	Richard S. Stauffer
Oren Persons, Jr.	

Hotel: Shelburne

ELASTIC STOP NUT CORP. OF AMERICA 354
A'G'A Division
Elizabeth, N. J.

ENGINEERED PLASTICS, INC. 859
Gibsonville, N. C.
Exhibiting: Precision built winder and twister bobbins for synthetic yarn throwing; headless take-up packages; redraw caps; textile specialties fabricated from plastics.
D. M. Davidson, Jr., pres.
C. H. Phillips, sales engr.
J. H. Windle, Jr., N. E. rep.
Hotel: Shelburne

ERIEZ MFG. CO. 431
Erie, Pa.
Exhibiting: Permanent, non-electric magnetic equipment especially designed for the textile industry, including spiked apron magnets, pneumatic humps, suspended plate magnets, and doffer track magnets; also, the Eriez Magnalarm which automatically warns to prevent overloading magnets with tramp metal.
Ned Hirt, adv. mgr.
R. C. Hoff, dir. of mfg. & engr.
E. C. Miller, exec. asst.
Hotel: Shelburne

THE FAFNIR BEARING CO. 252
New Britain, Conn.
Exhibiting: Ball bearings and textile accessories equipped with ball bearings; ball bearing pillow blocks.
C. A. Berg — A. G. Laughridge
D. M. Davidson — T. L. Hunt
F. Leister — G. H. Raley
S. D. Berg
Hotel: Claridge

THE FARVAL CORP. 609
Cleveland, Ohio
(see Cleveland Worm & Gear)

FAULTLESS CASTER CORP. 824
Evansville, Ind.
Exhibiting: Ball bearing top rolls for spinning and roving frames; nylon insert top rolls for spinning frames; textile casters.
Robert B. Burris, mgr. tex. equip. div.
Charles L. Yeomans, sales agt.
Robert S. Brice, sales agt.
Howard Sherlock, sales agt.
Donald Sherlock, sales agt.
Samuel S. Whiteley, sales rep.
Hotel: Traymore

THE FELTERS CO. 39
Boston, Mass.
Exhibiting: Unisorb, a specially-developed felt pad used to install machinery without lag screws or bolts; a comparative display to show difference between a machine mounted on Unisorb and one not so mounted as far as transmitted vibration is concerned; also photos of Unisorb installations in textile mills.
P. N. Wheeler — R. E. Ferguson, Jr.
J. W. Morrison — R. E. Ferguson
C. H. Sykes, Jr. — L. R. Ferguson
N. A. Hill — J. Gilfillan
R. V. Dwyer
Hotel: Ritz-Carlton

FIBREMOLD, INC. 864
Medford, Mass.

FIBRE & FABRIC 848
Cambridge, Mass.

FIELDEN INSTRUMENT DIVISION 803
Robertshaw-Fulton Controls Co.
Philadelphia, Pa.

FINNELL SYSTEM, INC. 1022
Elkhart, Ind.

FLETCHER WORKS, INC. 453
Philadelphia, Pa.
Exhibiting: High-speed, semi-automatic, narrow fabric looms; throwing machinery, including a high speed winder, King Spool pirn twister, duplex doubler twister, and Perfex reel; centrifugal extractors, including the Twintainer (employing removable baskets) which has found an application in the raw stock and skein dyeing industries.
W. H. Rometsch, sec. treas.
C. W. Moore, vice-pres.
Raymond Winward, sales engr.
J. D. Harrison, sales dept.
Leonard Egee, sales dept.
Warren Egee, chief engr.
H. J. Roessell, engr. dept.
F. W. Warrington, sou. rep.
George W. Dudley, sou. rep.

THESE WILL BE SHOWN FOR THE FIRST TIME

Gravity feed ring oil system for wool spinning and twisting (D&F)
Tramp iron separator that sounds alarm when loaded (Eriez)
Draper's new loom take-up mechanism with no exposed gears
84" Model L three-cylinder woolen card (Davis & Furber)
Paper tube spindles for D&F Model F wool spinning frame
Loom with automatic lubrication to 25-30 points (Draper)
Sant' Andrea Model PSL rectilinear comb (Ernest Frankl)
Diehl special purpose loom motor with built-in flywheel
Landolt 2 for 1 twister spindle (Gubelin International)
Geo. S. Harwood's 84" Type G Bramwell card feeder
Magnetic amplifier adjustable speed Franklin drives
New center wind or batching unit by David Gessner
Foster-Muschamp Model 66 automatic filling winder
Loom drive gearing operating in oil bath (Draper)
Draper loom with antifriction and oilless bearings
Tension adjustment for Draper's clock spring top
The Curlator Rando-Feeder and Rando-Webber
Power transmitter for tricot machines (Diehl)
Durant predetermined electric productimeter
Model 84-LU wrapping machine by Hayssen
Compound-driven let-off for Draper looms
Davis & Furber Model L-3 Simplex napper
Foster Model 202 automatic cone winder
E Model loom with Draper-Diehl drive
New Draper anti-friction spindle
New Hermas selvage trimmer
David Gessner's new napper
Archless looms by Draper

Fletcher Works continued
T. B. Baldridge, Jr., sales dept.
Hotel: Shelburne

FOSTER MACHINE CO. 563
Westfield, Mass.
Exhibiting: The Model 202 automatic machine for the winding of cones for knitting, warping, quilling, doubling and twisting supply—basically this is the Foster Model 102 winder equipped with automatic tender which travels around machine on rails so that operator's duties are only to don and doff cones, thread up new cones, and keep chutes supplied with full bobbins; The Foster-Muschamp Model 66 automatic filling winder that features a spindle speed of 15,000 rpm, no damage to fine filament yarn, and perfect build of bobbins; Model 102 for producing open wind cones and tubes of all types of spun yarn; Model 75 for precision winding of heavy yarns; Model 76 for sizing nylon yarns; Model 77 for precision winding of heavy yarns; Model 78 for precision winding of tire cord and other very coarse yarns to 10" traverse package weighing up to 35 lb; Foster-Muschamp Auto-Quill machine for automatic winding of quills of all types; Foster-Muschamp Autofill for automatic winding of filling yarns of all types.
W. C. Chisholm, pres. & treas.
E. C. Connor, vice-pres. & dir. of sales
H. W. Ball, chief engr.
F. S. Stange, engr. dept.
E. R. Davis, engr. dept.
F. A. Burke, engr. dept.
R. B. Kendall, engr. dept.
J. A. Moore, engr. dept.
C. B. Terry, sales dept.
H. E. Swift, sales dept.
E. P. Dodge, sales dept.
H. A. Cadle, sales dept.
E. H. Ely, sales dept.
G. W. Mallory, sales dept.
J. B. Davenport, sales dept.
P. H. Farmer, sales dept.
H. L. Muschamp, foreign rep.
Hotel: Dennis

FOXBORO CO. 353
Foxboro, Mass.
Exhibiting: Model 40 CycleLog Controller for automatic regulation of time-temperature schedules; a flow control system for package dye machines; instrumentation for precise control of pneumatic loading; an instrument for the control of mill humidity.
H. H. Michelmore — W. W. Barron
R. E. Beers — E. W. Prendergast
G. Hammer — W. H. Ridley
G. E. Clark — J. W. Gordon
S. C. Alexander — E. J. Exworth
Hotel: Claridge

ERNEST L. FRANKL ASSOCIATES 830
New York, N. Y.
Exhibiting: In operation, the Sant' Andrea rectilinear comb, Model PSL, with advantages of greater production, less waste, ease of operation, and greater simplicity; illustrations of other Sant' Andrea worsted machines; scale model of a Mueller narrow fabric loom, picker drives, shuttle blocks, etc., plus illustrations of installations; illustrations of tenter frames, automatic screen printing machines, etc., manufactured by Ab Svenska Textilmaskinfabriken.
Ernest L. Frankl, sales agent
Gunther Frankl, sales agent
Max J. Weyl, sales agent
Armando Ansaloni, technician
Carlo Schleifer, tech. dir. Sant' Andrea
Ing. Bertolo, devlp. engr. Sant' Andrea
Jakob Mueller, pres. Jakob Mueller
B. Melbin, pres. Ab Svenska Textilmaskinfabriken

FRANKLIN CONTROL CORP. 816
Milwaukee, Wis.
Exhibiting: An operating demonstration of two magnetic amplifier adjustable speed drives in which the speed of the main drive is controlled manually by the spectator and the speed of the slave drive is controlled automatically by a dancer roll which maintains constant tension in

Take With You

to Atlantic City the handy list of exhibitors and floor plan of the exhibition hall loosely inserted in this issue. It was furnished to help you in locating your supplier friends after you get into Convention Hall.

Notice, too, that names of hotels where suppliers' representatives are stopping are included in the event that you wish to contact them after show hours.

an endless fabric belt.
P. S. Malick, pres.
R. W. Moon, sec.-treas.
Hotel: Boscobel

THE FULLER BRUSH CO. **704**
Hartford, Conn.
Exhibiting: All types of brushes for spinning, weaving, and carding departments, including specially designed loom, rail, and roller brushes; power driven brushes for textile processing, including cotton card brushes, radial-coiled brushes for woolens and worsteds, brush strips for thread dressing.
J. A. Hash, N. C. sales rep.
J. C. Henry, S. C. sales rep.
E. W. Mason, Atl. Ga. sales rep.
R. P. Reittinger, supv. ind. sales.
Hotel: Claridge

GASTON COUNTY DYEING MACHINE CO. **82**
Stanley, N. C.
Exhibiting: Beam, package, raw stock, and nub dyeing machinery and auxiliary equipment.
George H. Hacker, vice-pres. & sales mgr.
A. P. Craig, vice-pres. & sec.
Gordon Hacker, asst. sales mgr.
Hotel: Claridge

GENERAL ELECTRIC COMPANY **568**
Schenectady, N. Y.
Exhibiting: Motors and components for textile applications, including part-winding motor and control for soft starting of textile machines, special short motor for individual card drives, fan cooled motor for Saco-Lowell SG-1 spinning frame, short loom motor developed for Crompton & Knowles newly designed flywheel loom motor, screenless and screen textile motors, a dual torque motor, a d-c gear motor, yarn tension brakes, high speed rayon-type spindle motors; also control equipment, including "lint-tight" loom switches, card starters, and a special SG-1 starter.
C. J. Ossenfort

GENERAL PLASTICS CORP. **914**
Paterson, N. J.
Exhibiting: Dry cans and other textile items coated with "Teflon" to prevent anything adhering to their surfaces.
Robert Goldsmith — J. Exechel
R. Hess — W. Hassler
Hotel: Shelburne

GINSBERG MACHINE CO., INC. **310AA**
New York, N. Y.
Exhibiting: Individual selvage "Trim-Master" equipment on an inspection frame for automatic selvage trimming; "Electro-Sealer" for high frequency application of labels to garments and textiles; "Sciss-O-Matic" automatic electric scissors for use on flexible or stationary unit; individual "Trim-Master" as used in finishing departments of textile mills for removal of loose end threads by suction and electric clippers.
Harold Stout — William Lieberman
Si Margolis — Phil Harris
Hotel: Shelburne

DAVID GESSNER CO. **206**
Worcester, Mass.
Exhibiting: A new napper and new center wind or batching unit.
John P. Franklin, pres.
R. C. Franklin, salesman
R. L. Bernard, salesman
Hotel: Dennis

GLENWOOD MACHINERY ASSOCIATES, INC. **905**
Newark, N. J.
Exhibiting: Model E quill refinisher and degreaser which has many improvements in the feeding and transporting mechanism, more positive aligning of the work, and simplification of adjustments—will finish the whole or various parts of the quill.
Charles F. Jones, Jr., pres.
Helmuth C. Sonntag, vice-pres.
George Westwater, sec.
Alexander F. Schenck, sou. rep.
Hotel: Lafayette

GEORGE A. GOULSTON CO. **607**
Scituate, Mass.
Exhibiting: Fiber lubricants—Olive Sub, Topsol, and Synthol.
George A. Goulston, pres. & treas.
Paul A. Mazur, chem.
A. Winograd, chem.
Ben Goulston, rep.
Hotel: Shelburne

GRATON & KNIGHT CO. **349AA**
Worcester, Mass.
Exhibiting: "Orange" line of textile leathers, including "Pickmaster" pickers, "Haritan" check straps (endless, straight, or curved), "Boxmaster" binder and box plate leathers, "Spintex" spindle bumper straps, lug straps, harness leathers, heel and jack straps, condenser tapes, comb and gill box aprons, rub roll aprons, working display of loom picker assembly in action showing how "Orange" leathers work together to cut shuttle costs by eliminating hot spurs, stop kinky filling by cutting out shuttle bounce, reduce bangoff by boxing perfectly, and increase profits; flat leather belting in animated display.
Elliott C. Paddock, vice-pres. sales
John G. Henrikson, asst. sales mgr.
Jackson L. Parker, adv. mgr.

GRINNELL CO., INC. **115**
Providence, R. I.
(See American Moistening Co.)

GUBELIN INTERNATIONAL CORP. **1024**
New York, N. Y.
Exhibiting: SMM roller bearing spindles that operate 20,000 working hours without change of oil; Landolt two-for-one spindles with SMM bolsters that double production of existing up-twisters; ICOR variable pitch sheaves as simple to adapt and to operate as normal pulleys—they feature constant balance of forces while operating.
Werner Gubelin, pres.
Hans Blocher, asst.
Hotel: Fox-Manor

HARRIS PRODUCTS CO. **357**
Cleveland, Ohio

HARTFORD MACHINE SCREW CO. **602**
Hartford, Conn.
Exhibiting: Spinning and twisting spindles and miscellaneous textile machine parts.
A. Raymond Andrews, asst. sales mgr.
A. E. Winslow, mgr. sou. div.
N. D. Kennedy, engr.
Kelsey Dodd, engr.
Hotel: Claridge

HARTFORD RAYON CO. **821**
New York, N. Y.
Exhibiting: Space for reception of friends.
H. M. Bailey, Jr.
George R. McGrath
Thomas L. Leslie, Jr.
Hotel: Ritz-Carlton

GEO. S. HARWOOD & SON **463**
Worcester 8, Mass.
Exhibiting: An improved Type G Bramwell feeder operating in conjunction with an 84" wide Davis & Furber woolen card.

HAYES INDUSTRIES, INC. **361**
Jackson, Mich.
Exhibiting: Light metal section beams, tricot beams, loom beams, and bobbins for synthetic yarns.
E. C. Hetherwick, pres. & gen. mgr.
G. B. Vass, vice-pres. & asst. gen. mgr.
William H. Maxson, sales mgr.
D. C. Bender, chief engr.
W. D. Sharp, tech. engr.
J. E. Prins, prod. mgr.
J. Paul Laird, east. rep.
R. E. L. Holt, Jr., sou. rep.
F. New, sou. rep.
D. Sellers, sou. rep.
J. S. Fallow, Jr., N. E. & Canadian rep.

HAYSSEN MFG. CO. **117CC**
Sheboygan, Wis.
Exhibiting: The new Hayssen Model 84-LU wrapping machine, especially designed for textile goods—machine will be equipped with electric eye for registering printed design on package; also the new tight and loose wrap attachment and reciprocating hold-down mechanism.
J. C. Johnston, gen. mgr.
R. P. Wilson, S. E. div. sales mgr.
H. E. McAvoy, east. & Canadian div. sales mgr.
Harold White, N. Y. rep.
Fred Koehn, salesman
Jim Lynch, salesman
Hotel: Marlborough-Blenheim

HEANY INDUSTRIAL CERAMIC CORP. **5**
New Haven, Conn
Exhibiting: Heanium long life textile guides; a number of new patented guides designed to speed production.
A. O. Pieper, pres.
A. Clark Pieper, sales engr.
H. Boveri, engr.
R. Gossett, sou. rep.
Hotel: Marlborough-Blenheim

HERR MFG. CO., INC. **84**
Buffalo, N. Y.
Exhibiting: Complete line of latest Herr conical rings and holders constructed for high speed production; also, special light weight flyers used in constructing Helanca and stretch yarns of all types.
Hyatt B. Atwood, pres.
Charles M. Kitzmiller, tech. engr.
William W. Woodard, tech. engr.
James McLean, draftsman

THE HEWSON CO., INC. **589**
Newark, N. J.
Exhibiting: Takk high speed static control systems; Takk high voltage d-c insulation test sets and power supplies; Staticator master static alarm systems.
John K. Hewson, pres.
Walter E. Krause, gen. mgr.
A. C. Moore
T. A. Collier
Hotel: Dennis

HOBBS MFG. CO. **1017**
Worcester, Mass.
Exhibiting: Hobbs-Alquist constant tension winder, operating completely on electricity through a three-phase, a-c motor so constructed that it automatically senses torque as it increases while material is being rewound.
S. F. Oakes, exec. vice-pres.
Hotel: Crillon

ALFRED HOFMANN NEEDLE WORKS **1000**
West New York, N. J.
Exhibiting: A textile testing instrument, the Projectina 500-C, for analyzing fibers, yarns, and fabrics and designed specifically for textile research, quality control, and documentation; also literature describing dyeing and finishing equipment manufactured by H. Krantz and H. Krantz Sochne of Aachen, Germany.

HOLDSWORTH GILL SCREW CO., INC. **146**
Pawtucket, R. I.
Exhibiting: Balling head gill reducer producing two 20-lb balls of up to 3-3/4 oz top with one head of fallers; set of balanced single head gill reducers with 2, 3, and 4 deliveries each head; Holdsworth top breaker.
Walter P. Rutley
George Bliss
Harold Farnsworth
J. L. Coon
Walter Stearns
Charles Curran

THE HOLO-KROME SCREW CORP. **819**
Hartford, Conn.

R. E. L. HOLT, JR. & ASSOCIATES 44
Greensboro, N. C.
Exhibiting: Snowiss shuttle fur; Rice canvas lugs with wire core, dobby cords, pattern chain bars; Norris shuttles, picker sticks, and other wooden textile parts; Mitchell-Bissell porcelain and wire thread guides; Glover Southern bobbins; Dixon saddles, levers, stirrups.
R. E. L. Holt, Jr., pres.
David R. Sellars, salesman
Floyd A. New, salesman
J. G. Skinner, salesman
J. B. Adams, salesman
Cecil A. McAbee, salesman
W. B. Dunson, salesman
Hotel: Shelburne

R. H. HOOD CO. 316
Philadelphia, Pa.

HOWARD BROS. MFG. CO. 339
Worcester, Mass.
Exhibiting: "Tuffer" card clothing, including card clothing for woolen, worsted, cotton, asbestos, and silk cards; napper clothing; brush clothing.
Harry C. Coley, ch. of bd.
Neal A. Mitchell, pres.
Arnold W. Englund, gen. mgr.
Harold S. Bolger, rep.
Charles H. Haynes, rep.
Bruce D. Hodges, Jr., rep.
Thomas J. Jackson, rep.
E. Jack Lawrence, rep.
Harold Suggs, rep.

HUBBARD SPOOL CO. 554
Garrett, Ind.
Exhibiting: Stainless steel beaming bobbins for throwing; aluminum section and tricot beams; metal bound plywood loom beam flanges with steel friction let-off; new type wood section beam utilizing plywood flanges with specially designed steel drums.
R. M. Stout, gen. sales mgr.
J. C. Kerr, specialty salesman

HUNT LOOM & MACHINE WORKS, INC. 701
Greenville, S. C.
Exhibiting: The fully automatic HB-3 loom and accessories.
T. T. Patton, pres.
T. Henry Wood, vice-pres.
W. E. Henderson, vice-pres.
J. R. Federline, sales rep.
John Smith, ser. engr.
Billy Flinn, ser. engr.
Hotel: Messrs. Patton, Wood, Henderson, and Federline, Shelburne Hotel; Messrs. Smith and Flinn, Hotel Dennis.

RODNEY HUNT MACHINE CO. 159
Orange, Mass.
Exhibiting: The Rangette, a small but complete single-stage continuous bleaching unit, running dry with fabric.
L. M. Phillips, asst. sales mgr.
E. F. Harris, exec. vice-pres.
J. W. Rembe, sales mgr.
H. H. Belcher, dir. of engr.
M. G. Hopkins, sales engr.
T. W. Kitchen, S. E. sales rep.
L. V. Neese, S. E. sales rep.
C. H. Amidon, sales engr.
F. L. Wilkinson, sales engr.
L. F. Tumey, sales engr.
R. F. Powers, sales engr.
N. W. Pandell, asst. chief engr.
Hotel: Claridge

JAMES HUNTER MACHINE CO. 113 & 218
North Adams, Mass.
Exhibiting: An operating three-piece finishing range including the new tensionless gas-fired Vapojet superheated steam dryer, a new heavy duty Hunter 3-roll padder, and a Marshall & Williams clip tenter overfeed device; the Hunter Barotor, the duPont developed high temperature machine for piece dyeing synthetics—it will be fully laced with cloth so details of operation can be observed; controlled tension, automatic jig made under license from a European manufacturer; the Whirl-Away ball bearing expander roll for most cloth spreading applications.
James H. Hunter, vice-pres.
Harry F. Creegan, sales
J. Everett Burdick, sales
Ernest Cannity, sales
Carl Endlein, sales
Douglas G. Spink, sales
Robert Spink, sales
Frank B. Morrill, chief engr.
Julian E. Woodworth, engr.
E. C. Rust, Jr., engr.
Hotel: Claridge

HYATT BEARINGS DIVISION, GENERAL MOTORS CORP. 533
Harrison, N. J.
Exhibiting: Hyatt roller bearings as applied to looms, cards, drawing frames, twisting and spinning equipment, finishing machinery, and electric motors for textile machinery.
J. R. Gilmartin, gen. sales mgr.
C. W. Kalchthaler, asst. gen. sales mgr.
E. P. O'Neill, mgr., east. sales
C. C. Wardell, adv. mgr.
R. H. Gibbons, chief engr.
E. Maurushat, sales engr.
P. Hutchinson, sales engr.
G. B. Baxley, sales engr.
Hotel: Dennis

IDEAL INDUSTRIES, INC. 901
Bessemer City, N. C.
Exhibiting: A new drawing frame with improved high speed drafting system and a new ball bearing plastic coiling mechanism to eliminate static, vibration, and noise (tube gear is suspended on ball bearings to provide easy coiling at much higher speeds).
Joe R. Whitehurst, sec. & prod. mgr.
E. B. Robinson, vice-pres. & sales mgr.
Frank B. McDonald, sales engr.
Albert S. Roebuck, sales rep.
Elvin F. Robinson, sales rep.
Hotel: Shelburne

INDUSTRIAL BRUSH CO., INC. 68AA
Little Falls, N. J.
Exhibiting: Metal core brushes used in textile finishing, including finest metal core brush with dense surface and wire wound tufted metal core brush.
William F. Enchelmaier
H. W. K. Enchelmaier
William J. Enchelmaier

THE INDUSTRIAL DRYER CORP. 103
Stamford, Conn.
Exhibiting: The "H-W" conditioner, especially designed for temperatures up to 300 F. and arranged to automatically pre-heat, condition, and exhaust at end of operating period.
F. W. Caesar, vice-pres.
W. H. Truesdale, salesman
P. H. Friend, salesman
J. R. Tutt, salesman
Hotel: Ritz-Carlton

INDUSTRIAL RADIANT HEAT CORP. 1002
Gladstone, N. J.
Exhibiting: Pictures of textile finishing heat equipment; fiber glass radiant heaters; ceramic superadiant heaters.
A. G. Darlson, sales mgr.
H. G. Anderson, research director
G. F. Sundstrom, pres.
Hotel: Dennis

THE JOHNSON CORP. 349
Three Rivers, Mich.
Exhibiting: Series 2000 and 3000 Type "J" rotary pressure joints for use on dry cans, compressive shrinking machines, slashers, calenders, and print cans; syphon elbow designed primarily for use with the 2000 and 3000 series joints.
R. O. Monroe, pres.
William R. Monroe, regional sales mgr.
R. W. Gotschall, regional sales mgr.
John R. Greenhalgh, dist. rep.
C. Wilson Gill, dist. rep.
James Groce, dist. rep.
William T. Harding, Jr., dist. rep.
Theo H. Abbey, dist. rep.
Hotel: Messrs. Monroe, Gotschall, Greenhalgh, Dennis Hotel; Messrs. Gill, Groce, Harding, and Abbey, Madison Hotel.

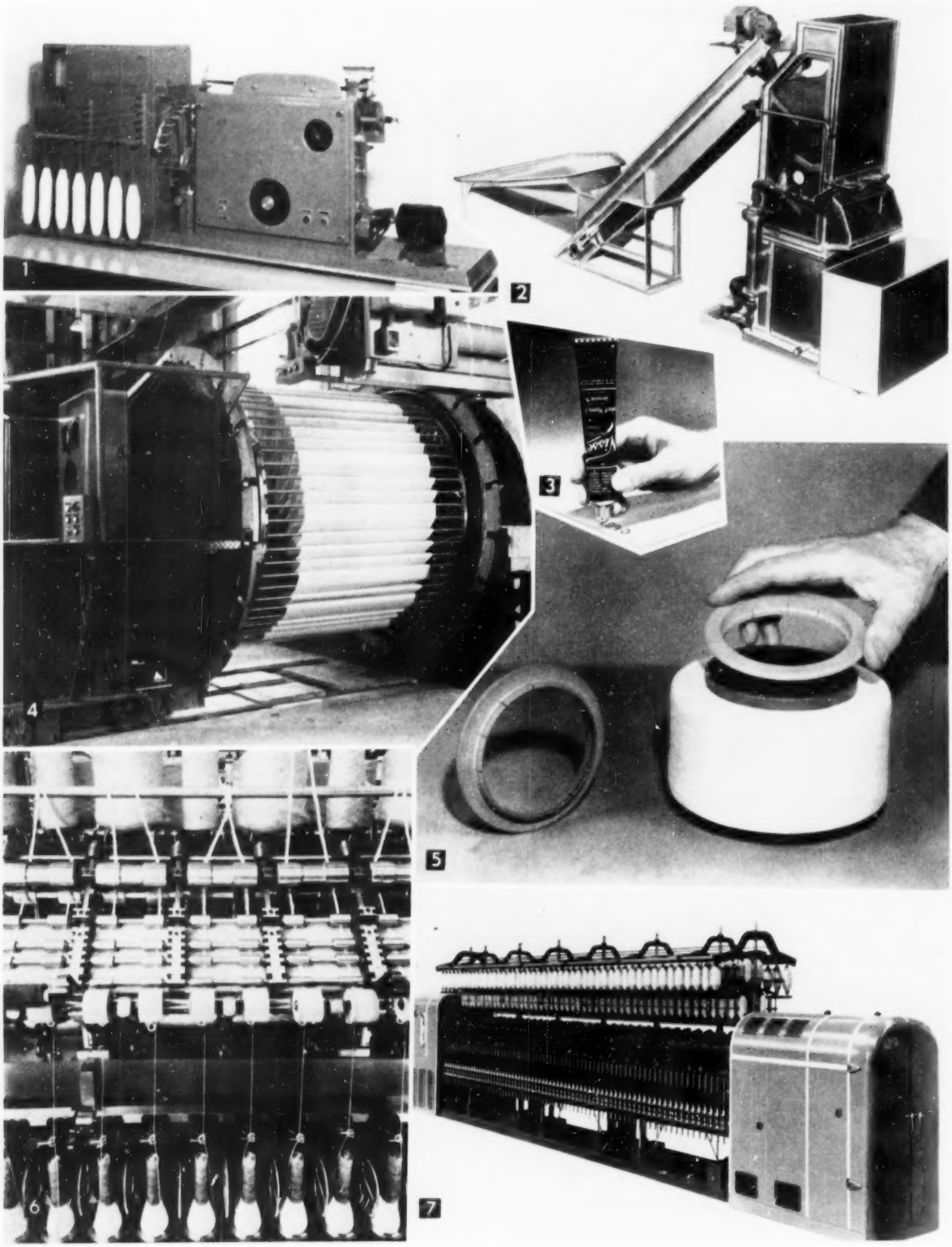
JOHNSON SERVICE CO. 1028
Milwaukee, Wis.

C. WALKER JONES CO. 1027
Philadelphia, Pa.

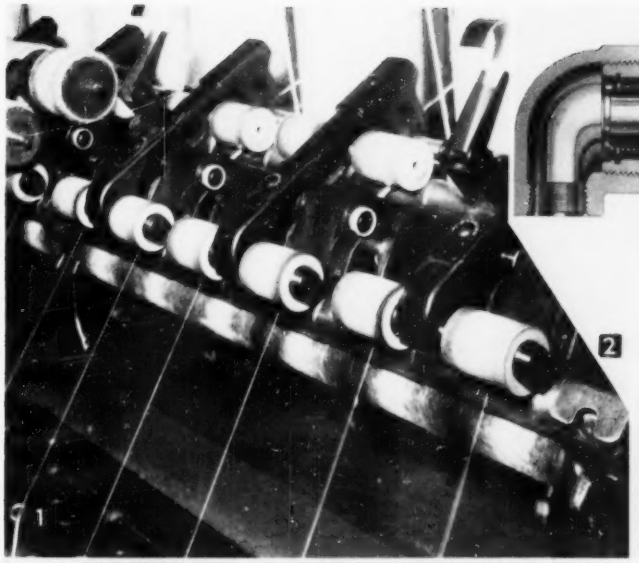
KAUMAGRAPH CO. 258
Wilmington, Del.

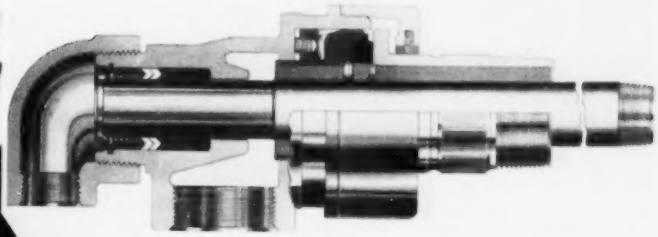
THESE WILL BE SHOWN FOR THE FIRST TIME

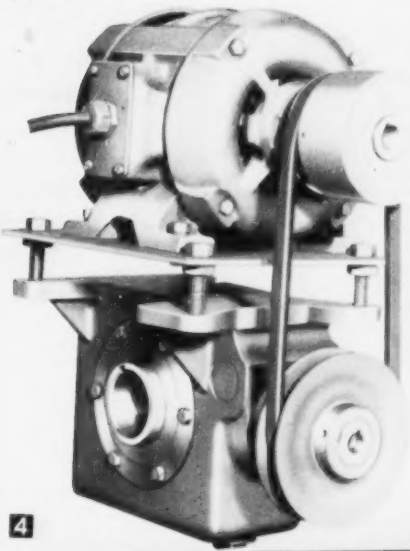
Two-kier combination beam package dye machine (Smith-Drum)
Redraw cap for nylon and Dacron shipping pirn (Synthane)
Shawmut rotary automatic reed cleaning machine (Schmidt)
SS-4, SG-1, Z-6, Duo-Roth, and SS-2 spinning by Saco-Lowell
Trumeter predetermined automatic totalizer instrument
Sipp-Eastwood's newest Model GB-54¼" direct warper
Scharer automatic pirn winder with boxing attachment
New design single apron dryer by C. G. Sargent's Sons
Indestructible steel shuttle tips (Std. Pressed Steel)
Smith-Drum 500-lb HiTemp package dyeing machine
Saurer automatic filling change loom for fine goods
New Spaulding Fibre bobbin for all synthetic yarns
Over-waxina roll for warp yarns (Seydel-Woolley)
Pendulum weighting arm for spinning frames (SKF)
Schmidt loom reeds for elimination of reed marks
Thoma pneumatic cleaners for spinning (Stellite)
High draft spinning frame by Societe Alsacienne
"Tufpile" synthetic lining for shuttles (Schmidt)
Sonoco's new plastic single head (king) spools
Spinning frame components by Texplant Corp.
All-aluminum beams by Briggs-Shaffner
Single shuttle ribbon looms by Saurer
SKF 20,000 hour no-lube ball bearing
Tennant power sweeper and V-mop
Stellite high speed pin drawer
Saco-Lowell Model 4 twister
Synthane collapsible bobbin
The Southwell sizer

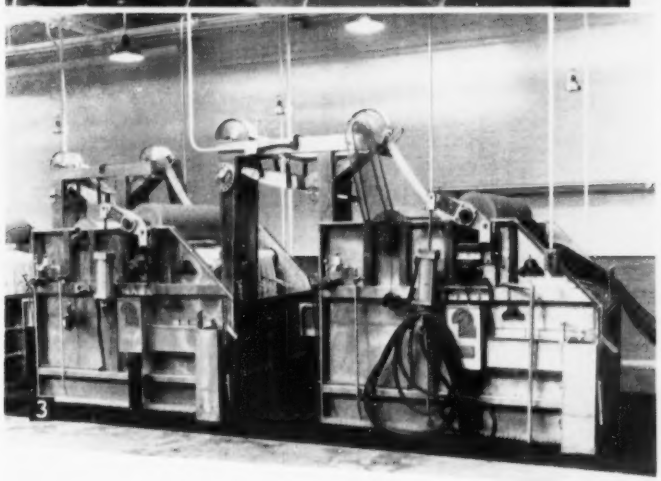


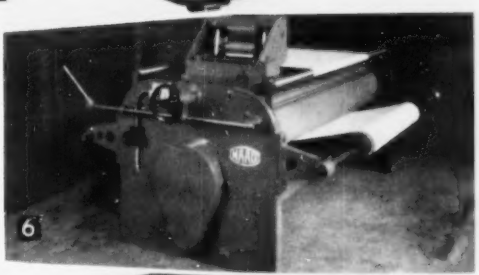
1. Autodinamografo automatic tensile testing machine to be displayed by Stellite American.
2. The improved Niagara twist setter by Seydel-Woolley.
3. John P. Nissen writing tube for marking textiles—inks resist wet processes.
4. James Hunter's Barotor, the DuPont pressure type machine for dyeing piece goods in open widths.
5. Synthane redraw caps for Dacron.
6. Close-up of high draft spinning frame for quality yarns from twisted or untwisted roving or worsted, synthetics, or blends by Societe Alsacienne de Construction Mecaniques.
7. Platt's M.R. 2 (new type) ring spinning frame for fine counts.

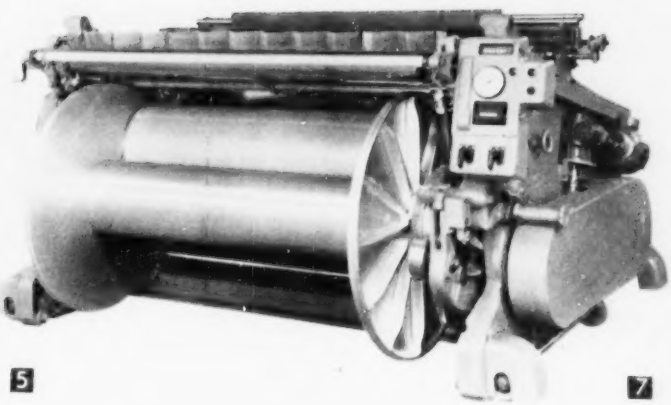


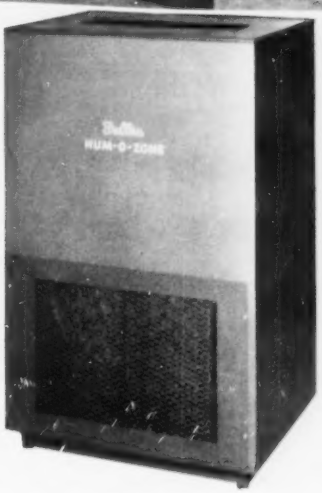












1. Cleanalign saddles with no cap bars by Product Sales.
2. Rotherm Type YR cut open section with rotating syphon.
3. Two bowls of the "Laxloop" continuous washer to be displayed by Riggs & Lombard.
4. Allis-Chalmers card drive with "Quick Clean" motor.
5. Heavy duty beamer by Robert Reiner.
6. Trumeter will display this Maag selvage printing machine.
7. Daffin "Hum-O-Zone" high capacity industrial humidifier.

KEARNY MFG. CO., INC. 309
Kearny, N. J.
Exhibiting: A Hygrolit yarn conditioning machine Model 5-AY-Special; conventional winders equipped with Threadco and Yarco conditioning devices.
C. F. Dulken, Sr., pres.
E. W. Ercklentz, vice-pres.
Paul J. Sturzenegger, chief chemist
Joe Rath, master mechanic
C. M. Baunach, European rep.

WILLIAM KENYON & SONS (AMERICAN) LTD. 1013
Perth Amboy, N. J.
Exhibiting: Spun nylon bonded spindle tapes.
O. E. Butcher, mgr. dir.
Hotel: Marlborough-Blenheim

WALTER KIDDE & CO., INC. 44AA
Belleville, N. J.
Exhibiting: Standard tension compensator in two models—from 0 to 120 grams and 0 to 300 grams; double disc tension compensator for high-speed winding in two models—0 to 120 grams and 0 to 300 grams; warp compensator from 0 to 22 grams featuring a new stop motion, tension control which pulls yarn from the supply package and feeds it to a second package at as little as 2 grams tension and precision, free-running roller bail; prototype of a single end cord processing machine for use in treating cotton for various industrial uses as well as wool and a new type of rayon for the carpet industry.
E. L. Herbert — J. H. O'Blenis
D. M. Kroll — F. H. Muller
Hotel: Dennis

THE F. A. LAZENBY CO. 248
Baltimore, Md.
Exhibiting: The K-type bobbin winder; a Model T-Jr. cop and butt winder; and an automatic cop winder.
Ray V. Watson, pres.
Olney R. Payne, treas.
Raymond S. Watson, vice-pres.
Charles A. Bridener, supt.
Hotel: Claridge

LENKOTEX CO., INC. 837
New York, N. Y.

LINCOLN ENGINEERING CO. 273
St. Louis, Mo.

LINDE AIR PRODUCTS CO. 346
Div. of Union Carbide & Carbon Corp.
New York, N. Y.
Exhibiting: Synthetic sapphire guides for spinning and throwing various synthetic yarns; Linde Type A and Type B alumina polishing powder.
A. K. Seemann, mgr., crystals dept.
I. Brown, Jr., sales rep. East. region
Joseph Haines, pres.
Robert Haines, vice-pres.

LINK-BELT CO. 90
Chicago 1, Ill.
Exhibiting: A working model of a drive arrangement featuring the use of electronically controlled P.I.V. variable speed drives to demonstrate automatic adjustment of fabric tension control and synchronization of roller speeds on a wind-up drive; a P.I.V. variable speed drive equipped with a new pneumatic control; a new line of geared flexible couplings; silent and roller chain drives; a gear-motor; a worm gear drive; display of ball and roller bearings; photographs showing Link-Belt conveying systems installed in textile mills and handling a variety of items.
William J. Nighbert, mgr. dist. sales

H. F. LIVERMORE CORP. 111
Boston, Mass.
Exhibiting: Improved loom parts.
Chester Hammond, pres.
Jack G. Phillips, asst. to pres.
Ernest W. Fanning, sales rep.
J. Stanley Barnes, sales rep.
John J. Donaghy, sales rep.
William T. Jordan, sales rep.
Jess B. Kilpatrick, sales rep.
Thomas H. MacLeod, adv. mgr.
L. G. Urquhart, research engr.
Sherwood O. Dodge, chief engr.
Hotel: Marlborough-Blenheim

LOCKWOOD GREENE ENGINEERS, INC. 79
New York, N. Y.
Exhibiting: Photographs of the company's most recent work in the textile field.
S. B. Lincoln, pres.
T. O. Ott, Jr., tex. engr.
Morgan Rogers, tex. engr.

Lockwood Greene continued
R. C. Trammell, tex. engr.
L. M. Geraghty, tex. engr.
Hotel: Ritz-Carlton

LOWELL TECHNOLOGICAL INSTITUTE 854
Lowell, Mass.

LYDON BROS., INC. 68
Hackensack, N. J.
Exhibiting: Truck-loading twist setter with latest improvements.
P. J. Lydon
J. P. McBride
C. H. Gingher
Hotel: Seaside

EDWARD J. McBRIDE CO., INC. 872
Philadelphia, Pa.
Exhibiting: Magazine creels; carpet backsizing machine; narrow fabric finishing machine; sealed mercury stop motion; snap-on cone holders; special bowed spring needles.
Edward J. McBride, pres.
Walter F. Kraemer, sales mgr.
Hotel: Claridge

McGLYNN HAYS INDUSTRIES, INC. 800
Belleville, N. J.

McKIERNAN-TERRY CORP. 708
Harrison, N. J.
Exhibiting: New multi-purpose calender specially designed for resin finishes and used for friction, Schreiner or embossing—can be converted from one service to another in a few hours.
Ken Johnson, engr.
Bernie Kaiser, sales
Red Jones, sales rep.
Laurie Whittelsey, sales rep.
Hotel: Ritz Carlton

MACBETH CORP. 271
Newburgh, N. Y.
Exhibiting: Examolite Fixture, Type C-4, for grading and inspection lighting; Gardner-Nickerson Cotton Colorimeter, Junior model, for measuring the color of cotton; Macbeth-Munsell Disk Colorimeter, Type 2, for positive, accurate color grading; executive daylight lamp for supervisors, sales personnel, etc.; Model BX-848 for basic color matching in the dyehouse and color laboratory; Model BX-1014 for basic color matching, color shading and grading operations; pH meters and pH control instruments; Macbeth-Ansco Color Densitometer.
Norman Macbeth, pres.
Warren B. Reese, gen. sales mgr.
R. E. Meeker, asst. sales mgr.
E. F. Slaughter, S. E. rep.
A. T. Hatton, N. E. rep.
Hotel: Ritz-Carlton

MANTON-GAULIN MFG. CO., INC. 6
Everett, Mass.
Exhibiting: The Gaulin textile homogenizer equipped with a new automatic recording pressure controller and a new single stage homogenizing valve which reduces maintenance costs. With the automatic recording pressure controller, there is constant, uniform homogenization, homogenization pressure is instant, and homogenization of size is improved; it saves labor costs, provides a permanent 24-hour record, has a completely automatic operation, and gives a reproducible homogenization.
D. G. Colony, pres.
G. W. Eldridge, ind. sales mgr.
William Hewitt, sou. tex. sales mgr.
J. J. Dwyer, north. tex. sales mgr.
L. H. Rees, research dir.
L. P. Deackoff, sales engr.
R. A. Auerbach, export mgr.
Florence Gahill, rep.
Hotel: Ritz-Carlton

THE MARQUETTE METAL PRODUCTS CO. 144AA
Cleveland, Ohio
Exhibiting: Roller bearing spindles.
C. E. Miller, sales mgr.
W. P. Russell, sou. rep.
C. H. White, sou. rep.
W. J. Howell, sou. rep.
J. J. Hallissy, N. E. rep.
Hotel: Claridge

MARSHALL & WILLIAMS CORP. 212
Providence, R. I.
Exhibiting: High speed tenter frame equipped with overfeed device and the No. 20 Universal tenter clip; a tensionless batcher; all types and styles of tenter clips and chain.
Richmond Viall, pres. & treas.
John C. Nash, sales mgr.
Fred H. Land, sou. mgr.
James A. Love, export mgr.
G. H. Curtis, supt.
E. E. Ford, sales engr.
Hotel: Shelburne

MAWACO MACHINE CO., INC. 127AA & 703
Brooklyn, N. Y.
Exhibiting: A new model single cylinder decating machine; also a 16-jack, three-position head motion for pile fabric looms.
Walter Schlaepfer, pres.
Otto Lepple, vice-pres.
Hotel: Shelburne

METALIZING CO. OF AMERICA 1015
New York, N. Y.
Exhibiting: Metalizing equipment, including the Mogulectric—completely electrically powered and controlled metalizing gun that eliminates wire feed and adjustment problems, used for reclamation of worn textile machinery parts.
Vernon A. Cook, vice-pres.
William H. McMakin, tech. engr.
Mark Gomperts, sales engr.
Warren W. Allerton, sales engr.
Hotel: Ritz-Carlton

MICRO SWITCH 839
Div. Minneapolis-Honeywell Regulator Co.
Freeport, Ill.
Exhibiting: A complete line of precision snap-action switches and Honeywell mercury switches designed for uses on original textile processing equipment as well as on present equipment to provide safety, to control quality, to make machines more automatic, and to increase production. Included will be a new mercury switch thread break detector, a two-circuit double-break switch, subminiature switches, hermetically sealed switches heavy duty limit switches, etc.
K. J. Cumming, Boston mgr.
J. K. Lincoln, east. div. sales mgr.
G. U. Messner, Chattanooga mgr.
Hotel: Chalfonte-Haddon Hall

THE MILLER CO. 488B
Meriden, Conn.
Exhibiting: Fluorescent, incandescent, and mercury lighting fixtures, featuring the new dust and vaportight fixtures and a fixture with apertured top reflector.
H. B. Connell, sales prom. mgr.
G. W. Beals, chief appl. engr.
J. B. Proctor, field sales engr.
F. A. Stewart, field sales engr.
L. A. Kline, field sales engr.
A. N. Martinson, field sales engr.
Hotel: Chalfonte-Haddon Hall

MILLER WRAPPING & SEALING MACHINE CO. 52
Chicago, Ill.
Exhibiting: Working demonstrations of Corley-Miller Model BL Sheeter with assembling and wrapping conveyor for textile products; Simplex high speed automatic bag making machine; Amsco Model PJL automatic bag labelling and sealing machine; Amsco Model S rotary bag sealer; Corley-Miller hot plates and hand irons.
R. H. Freeman, sales mgr.
F. J. Faletti, sales rep.
John Sylvester, treas., Amsco Packaging Machinery
Edwin E. Mesamer, vice-pres., Amsco Packaging Machinery
Hotel: Ambasador

MILTON MACHINE WORKS 344
Milton, Pa.
Exhibiting: All-metal warp beams for broad, narrow fabric, ribbon, velvet, and carpet looms; light metal section beams.
J. Stanley Billig, sales mgr.
Charles J. Anchor, chief engr.
W. DeWitt Leinbach, pres.
George W. Blunt, prod. mgr.
Hotel: Claridge

MINNEAPOLIS-HONEYWELL REGULATOR CO. 275
Philadelphia 44, Pa.
Exhibiting: The low range Radiamatic pyrometer in operation—indicating, recording, and controlling the temperature of a fabric made from synthetic yarn; flow meter receiver featuring a linear chart and electronic integration for simplified flow accounting; the new Model 604P5 remote bulb thermometer which incorporates temperature indicating and controlling action in a small case at low price; the new Series 800 diaphragm motor valves which operate in conjunc-

tion with a pressure pilot to provide a complete pressure control system.
E. Andrews, ind. mgr., textile industry
A. F. Day — J. D. Root
W. A. Munz — H. L. Russel
E. J. Klein — G. A. Stiftinger
J. J. Horner — J. A. Whitcraft
Hotel: Shelburne

MODERN TEXTILES MAGAZINE 272
New York, N. Y.

MORRISON MACHINE CO. 433
Paterson, N. J.
Exhibiting: Tight strand washer; eight-can, high-pressure vertical dryer; rubber belt type compressive shrinking machine; standard finishing tenter; raw stock dyeing machine; Genray process for continuous vat dyeing of heavy shades on rayon.
James L. Morrison, pres.
John C. Morrison, vice-pres.
A. V. Caporossi, sales engr.
John Kreeft, chief engr.
Harold Lacey, supt.
Erwin Wenz, asst. supt.
D. M. McSpadden, sou. sales rep.
Byram Scantland, sou. sales rep.
A. C. Freeman, Jr., north. sales rep.
Donald G. White, asst. treas.
William D. Heatherington
H. Irano, sales rep., Japan
K. T. Kendt, sales rep., Europe
G. R. Weber, sales rep. Brazil
William A. Silby, sales rep., Mexico
A. Alomar, sales rep., Colombia
Hotel: Shelburne

MORSE CHAIN CO. 555
Detroit, Mich.
Exhibiting: Latest developments in mechanical power transmission equipment for textile machinery, including the Hy-Vo high-speed, heavy-duty chain drive, torque limit converters that can replace shear pins and overload mechanisms in engine and motor drives, several sizes of the 200 Series cam clutches which have no inner race, roller chain and chain sprockets, and new Morse-Matic centrifugal clutches.
R. J. Howison, vice-pres., sales
P. W. Vinton, coupling sales mgr.
R. J. Donachie, dist. mgr., Phila.
H. N. Tyler, dist. mgr., Boston
R. B. White, dist. mgr., N. Y.
Hotel: Chalfonte-Haddon Hall

MOUNT HOPE MACHINERY CO. 370
Taunton, Mass.
Exhibiting: The complete line of Mount Hope expanders and other handling equipment for cloth, paper, and plastics, including a new open width tension device for use with machines where control of tension is necessary; the Model G continuous roll feed—an automatic scray that saves labor and cloth; a controlled expansion guide which automatically and accurately controls both widthwise stretch and lateral alignment of fabrics and plastic films; the "Vari-Bow" free wheeling expander in all sizes to cover every application; and selvage uncurlers designed for removal of double or turned selvages.
J. D. Robertson, pres.
John P. Hammett, mgr.
Forrest C. Ames, sales mgr.
Walter P. Murray, exec. engr.

A. B. MURRAY CO., INC. 867
Elizabeth, N. J.

J. M. NASH CO. 614
Milwaukee, Wis.
Exhibiting: The No. 79 automatic quill polisher with feeder; the No. 89 automatic bobbin washer.
A. Kluge, gen. mgr.
O. Barz, engr.
Hotel: Traymore

THE NATIONAL DRYING MACHINERY CO. 33
Philadelphia, Pa.
Exhibiting: Models of various types of dryers to demonstrate the use of National equipment through the entire range of textile processing—from chemicals and fibers to finished fabric.
David A. Colker, vice-pres.
H. Mason Clark, Jr., chief devlp. engr.
A. M. Zeller, sales engr.
Harold O. Kaufmann, sales engr.
John J. Nihill, sales engr.
George J. Schillinger, sales engr.
Hotel: Claridge

NATIONAL RING TRAVELER CO. 31
Pawtucket, R. I.
Exhibiting: Ring travelers, steel and bronze, for spinning and twisting all fibers; also new gauges for the spinning room.
Frederic L. Chase, Jr., pres. & treas.
R. V. Borden, plant mgr.
Herbert Jones, supt.
L. E. Taylor, sou. mgr.
D. R. Ivester, sou. salesman
T. Hill Ballard, sou. salesman
M. H. Cranford, sou. salesman
Donald C. Creech, sou. salesman
Frank S. Beacham, sou. salesman
Robert M. Leach, north. salesman
Henry M. Carter, north. salesman
A. M. Romero, export agent
Hotel: Claridge

NATIONAL STARCH PRODUCTS INC. 315
New York, N. Y.
Exhibiting: Starches.
I. L. Dowdee — E. J. Maslanka
H. M. Smith — H. C. Olsen
A. A. Dyer — G. J. Ouellette
F. N. Eastwood — W. H. Stone
D. R. Lassiter — J. F. Fitzgerald
Hotel: Shelburne

NATIONAL VULCANIZED FIBRE CO. 613
Wilmington, Del.

NEW DEPARTURE DIVISION 425
General Motors Corp.
Bristol, Conn.
Exhibiting: A line of ball bearings especially for textile machines, including new designs for spindles, tape tension pulleys, pick bearings, adapter bearings, and others; also new, highly efficient self-sealed bearings for general textile machine application.
Paul W. Rhame, gen. mgr.
Robert T. Collins, gen. sales mgr.
Howard A. Offers, asst. gen. sales mgr.
James P. Gillilan, east. regional sales mgr.
R. D. Brouwer, sales engr.
M. T. Monich, devlp. engr.

New Departure continued
W. Matthews, devlp. engr.
R. E. Honeycutt, sales engr.
Hotel: Claridge

NEW YORK & NEW JERSEY LUBRICANT CO. 41
New York, N. Y.
Exhibiting: Samples of "Non-Fluid Oil" especially perfected to conform to lubrication requirements of modern textile machinery; also a mechanical device illustrating densities of various "Non-Fluid Oil" grades.
Joseph H. Bennis, pres.
Lewis W. Thomason, sou. dist. mgr.
William E. Bierlin, mech. eng.
A. M. Cowan, rep.
R. F. Bagwell, rep.
J. A. Sorrells, Jr., rep.
F. W. Phillips, rep.
F. W. Winecoff, rep.
H. H. Beaman, rep.
D. G. Beaman, rep.
L. L. Hoyt, rep.
E. J. Wood, rep.
T. W. Feeley, rep.
Hotel: Dennis and Chalfonte-Haddon Hall

JOHN P. NISSEN, JR. CO. 710
Glenside, Pa.
Exhibiting: Inks for marking textiles—they resist dyeing, bleaching, etc., and are packed in writing tubes.
Chandler Ford
Milton A. High

NORCROSS CORP. 400
Newton, Mass.
Exhibiting: Recording and recording-controlling Viscometers for process control applications in the textile industry and featuring (1) the Sizeometer for automatic preparation of warp sizing in one-third the normal cooking time and incorporating the use of a Viscometer so that each batch is finished to the same

THESE WILL BE SHOWN FOR THE FIRST TIME

National Ring Travelers' new gauges for the spinning room
Auto-pneumatic control for Reeves Vari-Speed Motodrive
Morse Chain's Hy-Vo high speed, heavy duty chain drive
Saco-Lowell 4-over-5 drawing with Positube coiler head
Norcross Sizeometer for automatic preparation of size
Rubber belt compressive shrinking machine (Morrison)
Platt Brothers new processing machines for synthetics
Genray process for continuous vat dyeing (Morrison)
New Departure ball bearings for spindles and pulleys
Rotherm air, steam, and hydraulic revolving joints
Parks-Cramer traveling loom and frame cleaners
Non-lapping continuous roll feed by Mount Hope
Hacoba's new winders (Plutte, Koecke & Co.)
Proctor & Schwartz duplex card for synthetics
Mount Hope selvage switch for tenter feeders
Riggs & Lombard's Laxloop continuous washer
Rabo 54 permanent pleating machine (Reiner)
Cleanalign saddle assemblies (Product Sales)
New model Norcross recording Viscometer
Open width tension device by Mount Hope
Product Sales' Sureweight top roll tester
Saco-Lowell No. 15 and No. 16 openers
Reiner heavy-duty beaming machine
Bleaching rangette by Rodney Hunt
Model 54 comber (Saco-Lowell)
Saco-Lowell F-5 roving system
Plastic pipe by Republic Steel
New Reeves wind-up device

Restaurants

SEAFOOD RESTAURANTS

Hackney's
215 Maine Ave.
Dock's Oyster House
2405 Atlantic Ave.
Lotz Inn (Knife and Fork)
Atlantic, Pacific and Albany
Neptune Inn
Pacific at Albany
Colonial House
Fox Manor Hotel
McGee's Bar and Restaurant
1615 Pacific Ave.
2112 Bar and Restaurant
Atlantic Ave. at Arkansas
Capt. Starn's
Inlet end of trolley line

CHINESE RESTAURANTS

New Canton
184 S. Virginia
Chinaland
28 S. Tennessee
Dragon's Den
2021 Boardwalk

ITALIAN RESTAURANTS

Dicanio
1013-15 Atlantic Ave.
Dion
Boardwalk at Florida
Rex
18 So. Tennessee

JEWISH-AMERICAN CUISINE

Shumsky's
Pacific at Georgia
Yankel's
3207 Pacific Ave.

AMERICAN RESTAURANTS

Jack Guischard's Steak House
2500 Atlantic Ave.
Stanley
1230 Atlantic Ave.
Kornblau's
927 Pacific Ave.
Vienna
1415 Boardwalk
1328 Atlantic
1410 Atlantic
Sid Hartfield's
1617 Boardwalk
Huyler's
1723 Boardwalk
Johnson Restaurant
2328 Atlantic Ave.
Kents
1214 Atlantic Ave.
2124 Atlantic Ave.
Pacific Ave. at Illinois

viscosity, and (2) a new model recording Viscometer for quality control in synthetic fiber manufacturing, warp and single end sizing, coating or impregnating finishing processes.

A. S. Norcross — R. A. Norcross
F. J. Eimert — R. E. Howell
R. S. Davis, Jr.
Hotel: Marlborough-Blenheim

OAKITE PRODUCTS, INC. — **117AA**
New York, N. Y.
Exhibiting: New and improved methods and materials for cutting costs on mill maintenance operations, with displays of stainless steel reeds and aluminum bobbins before and after cleaning; various models of the Oakite solution-lifting steam-detergent guns; and methods of removing scale and rust from equipment and controlling slime and algae in humidifying systems.

R. E. Tschupp — O. J. Leeuyer
H. W. Cole — T. M. Christley
L. T. Prince
Hotel: Traymore

PACKAGE MACHINERY CO. — **1011**
East Longmeadow, Mass.

PANAMERICAN PUBLISHING CO. — **372**
New York, N. Y.

PARKS-CRAMER CO. — **138**
Fitchburg, Mass.
Exhibiting: Certified climate systems, including airchanger and central station equipment, Gradumatic humidification, and gradual acting Psychrostat regulation; traveling cleaner systems for frames and upper areas of rooms and looms, including the new CTR-7 for rooms, the CTF-5 for frames, and CTL for looms.
Maynard Ford, gen. mgr.
J. R. Henderson, sou. sales mgr.
W. E. Buck, north. sales mgr.
L. P. Ross, export sales mgr.
A. C. Buck, sales engr.
W. J. Buck, sales engr.
J. F. Crooks, sales engr.
W. B. Granger, sales engr.
L. R. Sibley, sales engr.
W. B. Walker, sales engr.
C. D. Lee, Jr., special rep.
Hotel: Claridge

PARKS & WOOLSON MACHINE CO. — **610**
Springfield, Vt.
Exhibiting: A vertical, high-speed cloth napping machine.
R. F. Hadley, sales engr.
Hotel: Claridge

PENICK & FORD, INC. — **590**
New York, N. Y.

PERFECTING SERVICE CO. — **26**
Charlotte, N. C.

B. F. PERKINS & SON, INC. — **130**
Holyoke, Mass.

PLATT BROTHERS (SALES) LTD. — **BALCONY**
Oldham, England
Exhibiting: New line of four synthetic blending machines which electronically control the percentage of the blend; MK 2 cotton spinning frame with standardized conditions for an even yarn tension.

B. A. P. Dobson — J. E. C. Armitage
Eugene Bozeman — H. H. Clinch
H. V. Farnsworth — F. Singleton
J. L. Coon — Peter Aitken
Messrs. Lamb, Morris, Shorrocks, Morene, Bennion, Booth

PLUTTE, KOECKE & CO. — **852**
Wuppertal-Barmen, Germany
Exhibiting: Original Hacoba winders equipped with (1) Simplex V reducing tension 30% in winding synthetics, (2) new yarn density control for narrow fabric trade, (3) automatic winder for all types of tubes used for sewing thread trade.
H. Karl Mulinghous
Dieter Rosenkranz
John L. Coon

PNEUMAFIL CORP. — **829**
Charlotte, N. C.
Exhibiting: Pneumafil pneumatic broken end collecting equipment on the following spinning frames displayed in the respective manufacturers' booths: Whitin—F3 with Type ASW long draft and F5 with T3 long draft; Saco-Lowell—SG-1 Gwaltney, SZ-6, SS-4, SS-2, SDR-3; Davis and Furber—Model F, Pneumastop equipment for roving frames—it brings conditioned air to drafting area, giving added strength to roving and resulting in less end breakage, and also stops frame automatically when an end comes down—will be shown in cooperation with the following roving frame manufacturers: Whitin—Model G10D LH, with ASW4 long draft, running worsteds; Saco-Lowell—Model F5.

C. R. Harris — J. A. McCall
J. W. Stuart — D. J. Thorp
G. E. Archer — J. W. Henderson

PRECISION CHROME & FINISHING CORP. — **836**
Worcester, Mass.
Arthur B. Brumell, treas.
Hotel: Traymore

PROCTOR & SCHWARTZ, INC. — **506**
Philadelphia, Pa.
Exhibiting: The new Proctor duplex card for synthetics which permits making fine yarns from stock in six operations—fibers are carded, cross blended through the use of a special intermediate feeding system, carded again, and delivered in a multiple end delivery arrangement; the Proctor preboarding machine for nylon hosiery utilizing two operators to completely dry 46 dozen pairs of hosiery per hour; a "radical new processing machine which offers wide application in the finishing industry, details of which cannot be announced until the show;" scale models of the Proctor loop dryer and curer, tenter housing, Con-O-Matic washer, and a complete fiber blending system; pictorially and diagrammatically the latest data on the Proctor loop ager, continuous open width steamer, hot air slasher dryer, multi-pass airlay dryer for drying fabrics without tension, impact dryer for stock, a continuous bleach system for tubular knit goods, and the Redman Process of shrinkage control of knit goods.

Myron T. Fleming — E. W. Gehrung
Albert G. Blank — **John Powischill**
Harmon B. Riehl — **Edward Hyde**
John H. Senior — **Albert Steinruck**
C. W. Schwartz, 4th — O. R. **Howard**
Denver Cunningham — John W. **Reinhard**
Thomas A. Mahan — Parke L. **Schaffer**
William H. Poole — John R. **Schenck**
Jack Franklin — C. W. Schwarz, 3rd
Jack Wilson — **W. A. Dickinson, Jr.**
Don Glassford — **T. J. Wilson, Sr.**
C. S. Tiers — **T. J. Wilson, Jr.**
W. J. Merrigan — Joseph P. Christ
R. M. Gracie — James M. Lurwick
George Clee — H. R. Zayotti

PRODUCT SALES, INC. — **19**
Whitman, Mass.
Exhibiting: Climax ball bearing top rolls for cotton, synthetics, woolens and worsted, and blends; Cleandraft nonlubricating back line top rolls; Cleanalign saddle assemblies which do not have cap bars; Sureweight top roll weight tester for quick measurement of top roll weights.
Louis M. Cotchett, pres.
Richard K. Butler, vice-pres.
Frank H. Cotton, sales mgr.
Merrill O. Thompson, N. E. sales agent
Raymond L. McCauley, N. C. sales agent
Dudley M. Dunlop, S. C. sales agent
James H. Canady, Atl. sales agent
Hotel: Dennis

THE PURNELL CO. — **364BB**
Boston, Mass.

ROBERT C. REED CO. — **617**
New York, N. Y.
W. E. Macpherson, sales mgr.
A. M. Romero, rep. S. Am. & Mex.

REEVES PULLEY CO. — **313**
Columbus, Ind.
Exhibiting: A complete line of variable speed drives and controls, all in actual operation. Included will be a completely new wind-up drive for the textile industry and the new Reeves Auto-Pneumatic control for the Reeves Vari-Speed Motodrive.
I. V. Falk, branch mgr.
J. B. Thomas, branch mgr.
J. H. Gepfert, branch mgr.
Frank Higgins, branch mgr.
P. C. Talbot, branch mgr.
J. A. Mahoney, sales engr.
W. J. Reeves, field sales mgr.
J. P. Reeves, sales mgr.
Hotel: Ritz-Carlton

ROBERT REINER, INC. — **45AA**
Weehawken, N. J.
Exhibiting: A heavy duty beaming machine, Model HD, designed to warp fine, delicate yarns (filament rayon, spun rayon, cotton, wool, worsted, nylon, etc.) at high speed without any undue strain on the yarn; permanent pleating machine, Rabo 54, for producing wash-proof pleats on knitted and woven materials of nylon, Orlon, and other synthetics; creel demonstration sections; motion picture of the Famatex-Reiner tendering frame in mill action.

Robert Reiner — George Moebius
Fritz Lambach — Walter Horn
A. Schoenenberg — Joachim Koegler
Hotel: Traymore

RELIANCE ELECTRIC & ENGINEERING CO. — **362**
Cleveland, Ohio
Exhibiting: Electric motors, including a-c floating worm gear motor, a-c fan-cooled and lint-free, a-c drip-proof protected, a-c spinning frame; adjustable speed drives with electronic power unit, and also a rotating power unit with programming.
K. S. Lord, dist. mgr.
N. R. Smith, sales engr.
D. D. Miller, sales engr.
A. C. Schettler, sales engr.
E. H. Sowers, sales engr.
A. W. Bridges, sales engr.
L. W. Kutz, sales engr.
E. E. Helm, sales vice-pres.
P. W. Arnold, marketing mgr.
K. F. Ertell, adv. & sales prom. mgr.
C. E. Robinson, appl. engr.
R. L. Custis, adv. & sales prom.
J. A. Wright, adv. & sales prom.
Hotel: Traymore

REPUBLIC STEEL CORP. **585**
Cleveland, Ohio
Exhibiting: Textile equipment and supplies manufactured from Enduro stainless steels which are resistant to the corrosive agents used in dyeing and bleaching operations and synthetic fiber manufacture and which have smooth, highly polished surfaces desirable for many applications in spinning and weaving; titanium which shows outstanding corrosion resistance in certain corrosive media and has desirable strength and light weight properties; also plastic pipe, in both semi-rigid and flexible types, that is easily installed, light weight, and corrosive resistant to many corrosive media.
J. H. Fishel, alloy steel div.
R. E. Rowland, alloy steel div.
S. E. Seckler, alloy steel div.
W. C. Schnackel, N. Y. dist. sales
T. E. Perry, alloy steel div.
H. M. McDaniel, pipe sales div.
J. E. Osman, adv. div.
Hotel: Marlborough-Blenheim

J. E. RHOADS & SONS **352**
Philadelphia, Pa.
Exhibiting: Complete line of Tannate textile leathers including 42 varieties of check straps, harness and jack straps, lug straps, spindle bumper straps, and a variety of loom leathers; also Tannate binder leather and flat leather transmission belts.
C. R. Mitchell, dist. sales mgr.
J. W. Mitchell, rep.
A. S. Jay, rep.
C. H. Tildes, dist. sales mgr.
S. L. Allen, consulting engr.
J. E. Rhoads, partner
R. H. Rhoads, partner
Hotel: Chalfonte-Haddon Hall
L. H. Schwoebel, rep.
Hotel: Dennis

RIGGS & LOMBARD, INC. **232**
Lowell, Mass.
Exhibiting: Two bowls of the "Laxloop" continuous washer, all stainless steel with rubber covered main squeeze rolls. Unit will be in operation with tubs filled with water and cloth being washed and passed from tub to tub over the "Free-Loop" compensator which keeps cloth free from tension and in a relaxed condition. D-e drive permits adjustment of speeds.
H. C. Riggs, pres.
C. J. Lombard, vice-pres.
J. W. Malloy, sales mgr.
H. R. Wilcox, chief engr.
L. T. Parkman, sales engr.
Hotel: Colton Manor

ROTHERM ENGINEERING CO., INC. **847**
Chicago, Ill.
Exhibiting: Air, steam, and hydraulic revolving joints; a demonstrating model of a dryer roll to show that certain types of Rotherm joints can be mounted with solid piping and will compensate for all roll eccentricity within the joint itself without the use of flexible hose; large photo of how these joints are installed with solid piping on a large indigo drying unit; also how joints can be used for operating any type of rotating air and hydraulically operated tables, cylinders, or other equipment that requires rotation and at the same time be able to operate double acting air and hydraulic cylinders through double passage revolving joint where rotation of two members operate on separate rotating centers.
H. S. Kuhn, pres.
Harley D. Holm, dist. rep.
Edwin J. Montalvo, dist. rep.
James N. Kelleher, dist. rep.
Ray Mack, dist. rep.
Hotel: Sterling

B. S. ROY & SON CO. **344AA**
Worcester, Mass.
Exhibiting: A ball bearing card bare cylinder grinder; a ball bearing card clothing grinder; a ball bearing card flat grinder; flame hardened card flat cradle stand; picker cylinder grinder; drum card flat grinder.
Thomas N. Brockman
Leon F. Frye
Herman C. Schwager
Duncan H. Dewar, Jr.
Hotel: The Fox Manor

RUDEL MACHINERY CO., LTD. **449**
Montreal, Canada
Exhibiting: Space for customers and friends.
J. M. Rudel, pres.
J. E. O'Donnell, vice-pres.
A. R. Webster, sales engr.
A. P. Ekstrand, sales engr.

THESE WILL BE SHOWN FOR THE FIRST TIME

Pacific Converter equipped to process Orlon (Warner & Swasey)
Hydro-Wynd drive for winding at uniform tension (Twin Disc)
Automatic slub catching attachment for Uster evenness tester
Multiple bobbin attachment for Uster yarn strength tester
Winsor & Jerauld's cub tenter and high speed roller chain
Schlumberger analyzer for wool and synthetics (Uster)
New gearmotor for cotton card drive by Westinghouse
New high speed vertical redraw (Universal Winding)
Universal 9" traverse ring twister for wet twisting
Stains direct spinner for synthetic tow (Whitin)
Spectograph for use with Uster evenness tester
Werner Model 36 constant lineal speed dye jig
New Shepherd caster by Wright-Batcheldor
Whitin RotoDrafter for wool and synthetics
Warner & Swasey Sulzer weaving machines
New loom let-off by Twin Disc Clutch
Three-roll padder by Wiesner-Rapp
Twin Disc air actuated loom clutch
New Whitin wool spinning frame
New Westinghouse loom motor
New filling winder by Whitin
The Veeder-Root Vary-Tally
Wiesner-Rapp Barotor

SKF INDUSTRIES, INC. **465**
Philadelphia 32, Pa.
Exhibiting: New and improved anti-friction bearing spinning frame accessories—(1) A pendulum weighting arm guides and weights top rolls by a new method, eliminating use of cap bars, saddles, hooks, and dead weights, and permitting individual guidance of top rolls at all times and separate adjustment without affecting load distribution; (2) A new grease-lubricated ball-bearing top roll, designed to prevent oil staining yarns, delivers uniform drafting and requires lubrication only once every 20,000 running hours; (3) a tilt-proof, all steel, tape tension pulley, with dynamically balanced Parkerized shell and double row ball bearing, has greatly increased capacity due to inner race rotation and a stationary grease chamber; (4) roller bearing bolsters; (5) ball bearings for cylinders; and (6) SY pillow blocks.

Richard H. DeMott	Carl N. Benson
R. Robert Zisette	John O. Cushing
Stuart H. Smith	Kurt Warberg
A. Stewart Murray	T. W. Morrison
Edward H. Wagner	B. Franklin Davis
B. K. Lathbury	Frank J. Matte
Arthur B. Studley	Paul W. Dunlap

Hotel: Shelburne

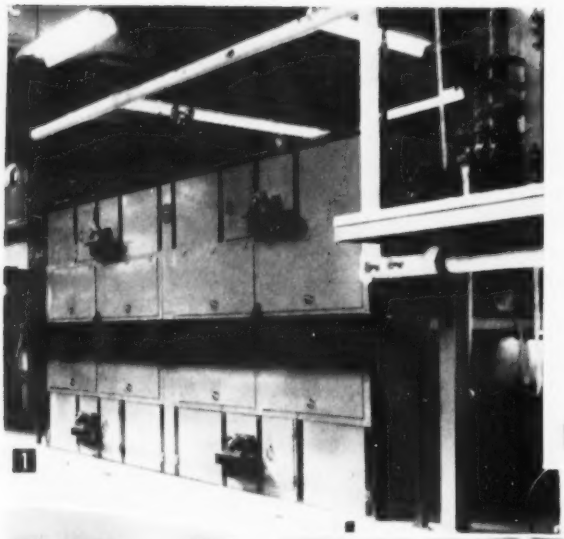
SACO-LOWELL SHOPS **95AA & 405**
Boston, Mass.
Exhibiting: The No. 15 opener, a new pre-cleaning unit that attaches to the delivery end of Saco-Lowell blending feeders and extracts additional trash in the opening line; the No. 16 opener, a new cleaning unit with revolving grid bars around heater section; card control rolls (to be demonstrated in a cantilever model) that facilitate breaking up of bunches of stock off the lap before the licker-in can transfer them to the cylinder; four-over-five drawing frame which adds a third drafting zone to 3-over-4 drafting assembly and thus makes high over-all drafts easier to control (Positube coiler head will be applied); the Model 54 comber incorporating three major innovations—a 4-over-5 roll draw box, an automatic draw box roll clearer, and a new coiler head for 14" or 15" cans; F-5 roving system of drafting with maximum roll spread of 9" that drafts long or shorter fibers of irregular length under complete control in a single drafting zone; new spinning frames with the following drafting assemblies operating on them—SS-4 (for worsted yarns), SG-1 (for cotton), Z-6 (applied to SG-1 frame for spinning synthetics), Duo-Roth, SS-2 (Shaw for cotton and rayon staple up to 2" long); the Model 4 twister for any type of twisting—exhibition frame will be twisting paper on one side and basic filament rayon on the other; Robinette spinning rings that require a comparatively short breaking-in period, minimize number of ends down per thousand spindle hours, and increase useful life of both traveler and ring.

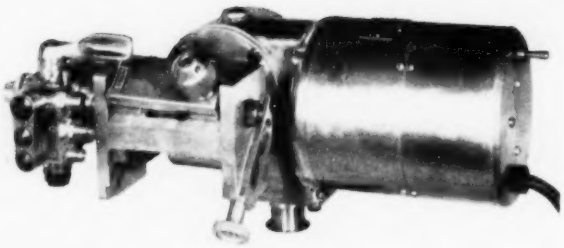
W. Frank Lowell	C. W. Howe
E. J. McVey	J. W. Hubbard
J. L. Truslow	H. J. Jones
R. M. Jones	L. Kuhn
W. S. Baillie, Jr.	A. K. Landau
E. T. Cansler	W. F. Lowell, Jr.
M. A. Comer	J. Rabasa
F. S. Culpepper	R. C. Scott
W. K. Dana	C. S. Smart, Jr.
J. W. Dickert	W. A. Thomason
U. E. Dubois	J. M. Walker
F. Gangitano	H. M. Walsh
J. L. Graves	W. R. Wood

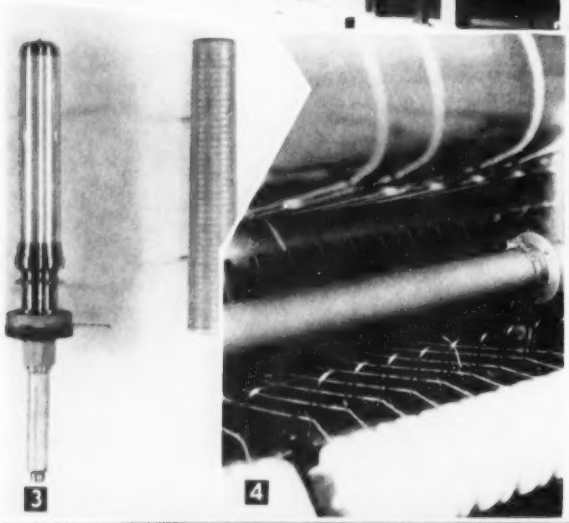
SAENTIS, INC. **Corridor, second floor**
Union City, N. J.
(See Societe Anonyme Adolphe Saurer)

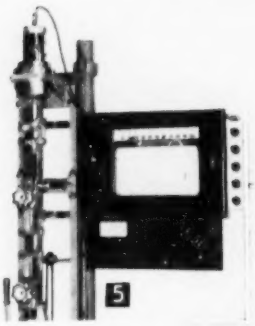
SARCO COMPANY, INC. **250**
New York, N. Y.
Exhibiting: Steam specialties; draining and air venting system units for drying cylinders.
E. Greene, sales engr.
K. A. Abrahamson, sales engr.
M. Biggs, sales engr.
W. Andrews, mgr. Newark sales office
A. Milnes, ind. sales mgr.
R. H. Johnson, sales rep.
Hotel: Shelburne

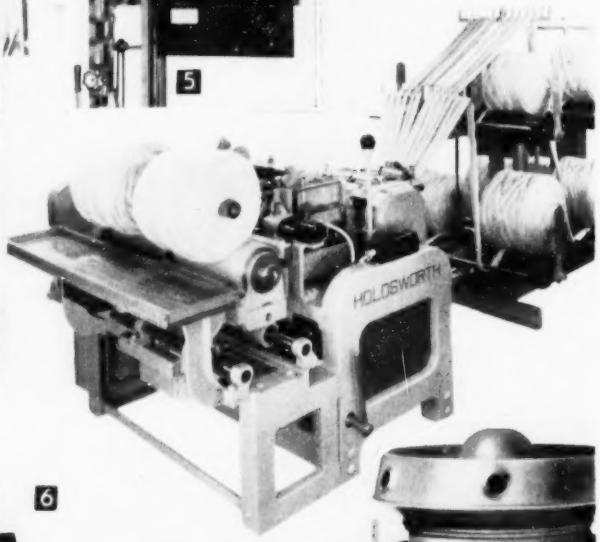
C. G. SARGENT'S SONS CORP. **401**
Graniteville, Mass.
Exhibiting: A new design single-apron dryer adaptable for use either as a stock dryer or as a backwash dryer for sliver or tops—lower temperatures eliminate all danger of brittle fibers and the attendant waste in succeeding processes.
Wet and dry picker for all fibers and blends—designed to pick and also open synthetic staple before or after drying and before carding. Used in absorbent cotton industry to open bleached or dyed fibers before drying. Works equally well with synthetic or natural fibers, wet or dry. *(Continued next page)*

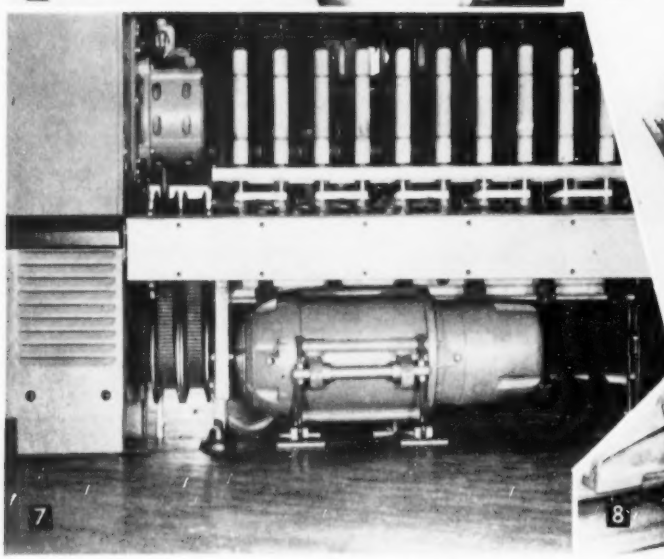


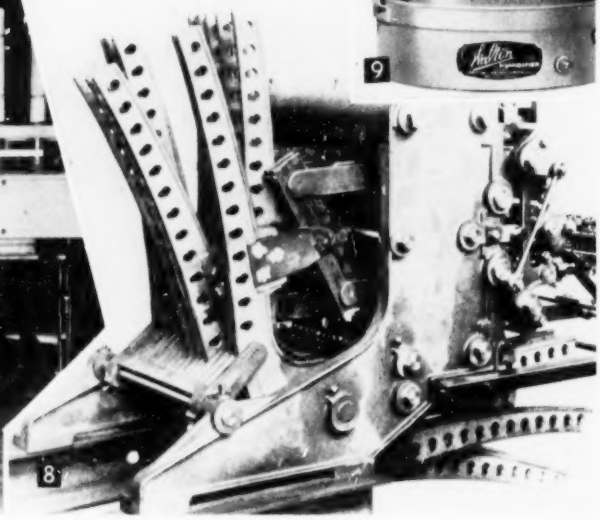






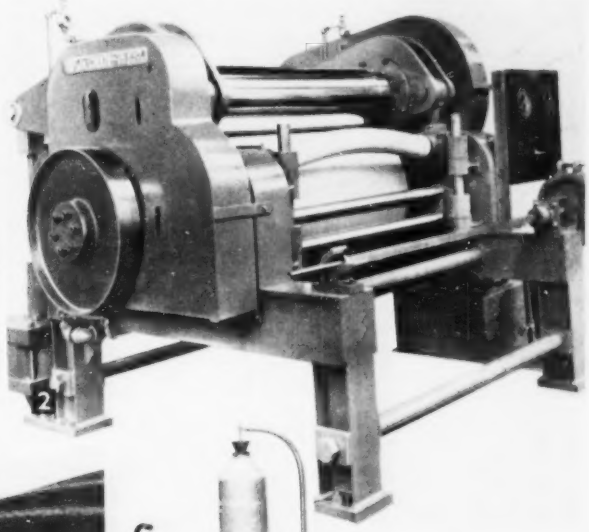






1. Vapojet tensionless dryer by James Hunter.
2. Metalizing Company's Mogulectric gun.
3. Paper tube spindle for woolen spinning frames by Davis & Furber.
4. Card-Tho-Mat pneumatic broken end collector for woolen card tape condensers (Stellite American).
5. Scott tensile strength tester equipped with "Accr-O-Matic" electronic weighing system.
6. Holdsworth balling head gill reducer.
7. Fan-cooled motor by Louis-Allis driving Saco-Lowell Gwaltney spinning frame.
8. Mawaco's 16-jack, 3-position head motion for pile fabric looms.
9. Unit type humidifier by Walton Laboratories.

1



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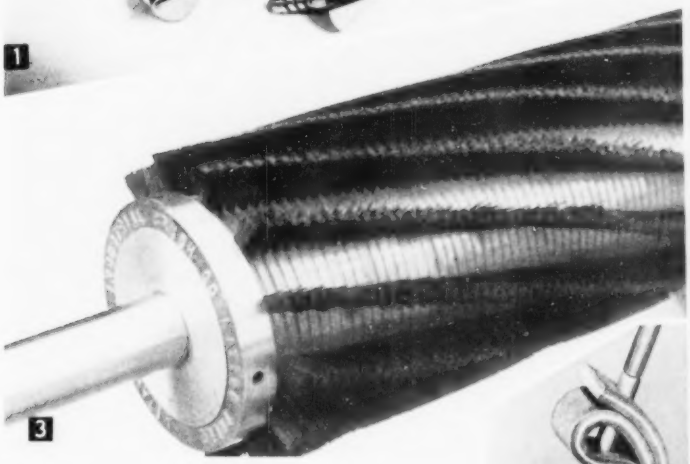

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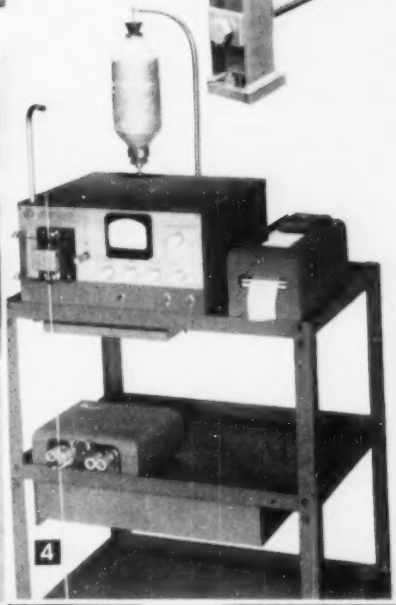

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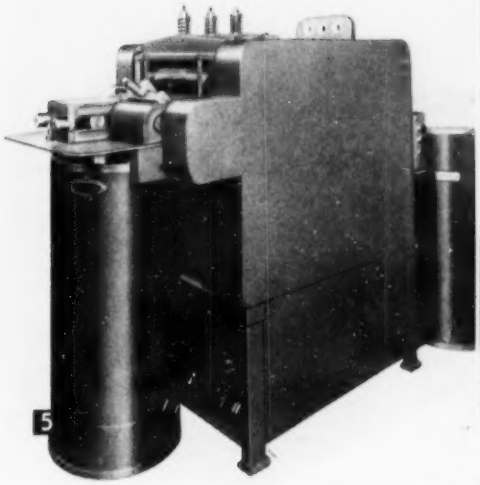
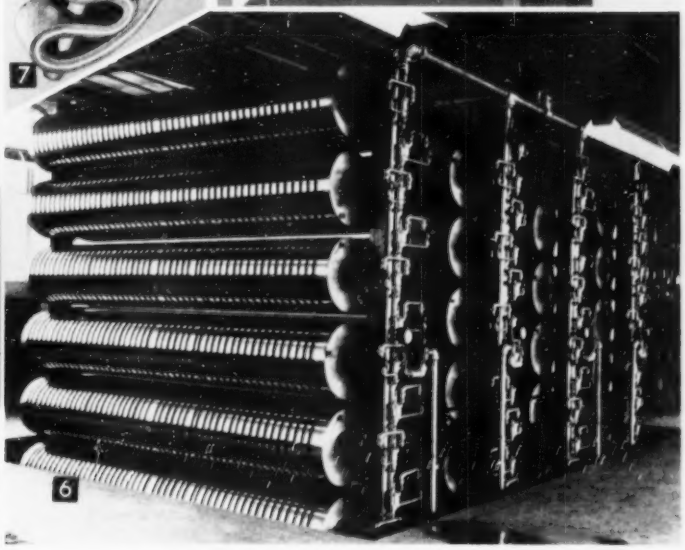


5



6

1. Steel shuttle tips by Standard Pressed Steel Co.
2. McKiernan-Terry's multi-purpose calender.
3. Wire-wound tufted metal core spiral brush to be displayed by Industrial Brush Co.
4. Uniformity Analyzer for sliver, roving, and yarn, by Brush Electronics Co.
5. The Southwell Sizer for squaring and/or blending of wool, mohair, and synthetic tops.
6. Large indigo dyeing unit equipped with Rotherm revolving joints.
7. Graton & Knight pre-formed spindle bumper strap.

C. G. Sargent's Sons continued

Hi-Speed Cordmaker—a new cord maker designed by John Silver, engineer-designer, and built by Sargent. A completely new principle of operation increases production tremendously, while showing a considerable cost-reduction over slower, conventional designs.
F. Stanley Smith, treas. & gen. mrg.
Richard W. Hall, chief engr.
Robert A. Lambert, dir. drying research lab.
Albert G. Forty, sales engr.
David A. Crocker, sales engr.
Paul L. Dumigard, sales engr.
F. E. Wasson, sales engr.
A. L. Merrifield, field rep.
W. S. Anderson, field rep.
Hugh Williams, field rep.

SCHARER TEXTILE MACHINE WORKS — **Stage, Second Floor**
Erlenbach-Zurich, Switzerland
Exhibiting: Two fully automatic pirn winders of ten spindles each, operating at spindle speeds of 8,000 rpm, and featuring these labor saving developments—automatic empty pirn loading device, dust remover, and automatic motion for packing or filling the pirn boxes (all pirns are carefully stacked in same direction, eliminating additional handling at loom).
Jacques Scharer, owner
E. A. Grimm, sales manager
Charles L. Yeomans, American agent
M. Brice, salesman
M. Jent, salesman
K. Laager, technician
Hotel: Ritz-Carlton

SCHMIDT MANUFACTURING CO. — **269**
New Bedford, Mass.
Exhibiting: Entirely new Shawmut rotary reed cleaning and polishing machine for metal or pitchband reeds—no attendance required; patented "Steel Spring" loom reeds for elimination of reed marks; "Tufpile"—a synthetic shuttle lining; a new densified picker stick with the weight and flex of hickory and wearing qualities of heavy compreg; other improvements in loom strapping, pickers, box plate coverings, and check straps.
Clayton E. Schmidt, sales mgr.
Hugh E. Schmidt, New Bedford div. mgr.
Ralph F. Schmidt, Greenville belting div. mgr.
Theodore Huston, Pa. dist. rep.
Hotel: Chalfonte-Haddon Hall

WILLIAM SCHOFIELD CO., INC. — **1010**
Philadelphia, Pa.

SCOTT TESTERS, INC. — **40**
Providence, R. I.
Exhibiting: The "Acer-O-Meter" weighing system for existing and new "Scott Testers" which utilizes an electronic principle and has an accuracy and versatility of range not heretofore obtainable; the Clemson Flat Bundle Fibre Tester for staple fibers; the Model X-3 tensile tester for recording single strand breaks on threads and cords and recently adapted for testing tearing resistance of woven textiles.
D. C. Scott, Jr., factory rep.
H. W. Horton, factory rep.
John Klinck, S. E. sales rep.
John E. Hargreaves, service rep.

SEYDEL-WOOLLEY & CO. — **918**
Atlanta, Ga.
Exhibiting: Niagara twist-setter yarn conditioning machine featuring minimum upkeep with high production and low floor space requirements; the over-waxing roll for applying melted wax to the yarn in a dry state to increase weaving efficiency.
Vasser Woolley, pres.
John R. Seydel, vice-pres.
Paul V. Seydel, vice-pres.
David Meriwether, mgr., finishing div. sales
W. L. Whisnant, sales rep.
A. W. LaGrone, sales rep.
W. H. Cutts, sales rep.
V. R. Mills, sales rep.
F. deLoach, sales rep.

SHELL OIL CO. — **356AA**
New York, N. Y.
Exhibiting: Industrial lubricants and stressing Shell's research and engineering development to produce finer products.
T. J. Klement, adv. rep.
R. M. Cokinda, mgr. lube. dept.
W. H. Neidermeier, asst. mgr.
R. E. Purinton, dist. mgr.
J. Gilmore, Jr., ind. rep.
L. W. Catling, ind. rep.
B. J. Davis, ind. rep.
W. E. Miller, ind. rep.
Hotel: Colton Manor except Mr. Klement who will be at Chalfonte-Haddon Hall

SILL INDUSTRIES — **4**
Maplewood, N. J.
Exhibiting: Carbomatic gas-fired Pyro-Jet and Una-Ray; Sill electric radiant heating panels.
Harold N. Bross, pres.
Thomas F. Walsh, vice-pres.
C. S. Na, engr.
Charles Grant, engr.
B. J. Lyster, sales
John A. Bianco, sales
Hotel: Claridge

THE SIMCO CO. — **616**
Lansdale, Pa.
Exhibiting: A complete line of static eliminating equipment for all textile machinery, including metal encased static bars, channel type static bars, and shockless static bars.
Dolph Dimons, partner
Wm. Rowedder, sales engr.
Harold Schweriner, appl. engr.
Julius Simons, partner
Hotel: Ritz-Carlton

SIMPLEX PACKAGING MACHINERY CO. — **52**
Oakland, Calif.

SIPP-EASTWOOD CORP. — **809**
Bloomfield, N. J.
Exhibiting: The newest Model GB-54¼" direct warper.
W. J. Behr, Jr.
Howard W. Ruddick
John H. Fleming
Otto Biegel
Hotel: Shelburne

JAMES SMITH & SON INC. — **317**
Worcester, Mass.
Exhibiting: Noble combing of wool and synthetic fibers.
William E. Christensen, pres.
James J. Sandy, supt.

SMITH, DRUM & CO. — **55**
Philadelphia, Pa.
Exhibiting: Dyeing, drying, and extracting machines, and featuring a new 500-lb high temperature package dyeing machine and a new two-kier combination beam and package dyeing machine.
H. S. Drum, pres.
R. N. Smith, vice-pres.
W. C. Dodson, asst. to pres.
Al Bagian, sales engr.
W. Fuchswanz, sales ser. engr.
A. P. March, tech. sales
R. W. Foltz, tech. sales
(Messrs. Parrott, Ballentine & Huffstetler, sou. reps.)
Hotel: Dennis

SOCIETE ALSACIENNE DE CONSTRUCTION MECANIQUES — **2nd Floor Corridor**
Mulhouse, France
Exhibiting: (1) New high draft spinning frame for quality yarns from twisted or untwisted roving of worsted, synthetic, or blends; cone gill reducer for complete control of long and short worsted or synthetic fibers.
Jean F. Berry — J. L. Coon
George Bliss — Hartley Slater
H. V. Farnsworth

SOCIETE ANONYME ADOLPHE SAURER — **Corridor, second floor**
Arbon, Switzerland
Exhibiting: An automatic weaving loom, Type 100 W, single shuttle, operating at 260-270 rpm with little vibration; automatic filling change loom for fine rayon and nylon yarns, four boxes on one side, equipped with Saurer system positive dobby, operating at 155 rpm; three single shuttle Type 40B ribbon looms.
S. Remy, sales mgr.
F. Forrer, engr.
Hotel: Ritz-Carlton

SONOCO PRODUCTS CO. — **71**
Hartsville, S. C.
Exhibiting: A complete line of cones, tubes, cores, spools, cots, bobbins; also new products made by the "Duroweld" process and new plastic single head (King) spools.
C. H. Campbell — G. K. Lewis
J. A. Reagan, Jr. — H. P. Lamarche
W. B. Broadbent — W. H. Hillsgrove
W. M. Carpenter — E. J. Cotter
W. R. Peacock — C. A. Burnham
W. K. Lewis, Jr. — Owen Fayne
P. F. Williams — W. R. Gray
A. H. Gildersleeve — O. D. Duckett
Hotel: Claridge

SOUTHERN TEXTILE NEWS — **815**
Charlotte, N. C.

SOUTHWELL TEXTILE MACHINERY RESEARCH CORP. — **1003**
North Chelmsford, Mass.
Exhibiting: The Southwell Sizer for various uses including squaring and/or blending of wool, mohair, and synthetic tops.
Robert Leslie, Jr., rep. in charge
Donald Duggan, rep.
Hotel: Eastbourne

SPAULDING FIBRE CO., INC. — **1018**
Tonawanda, N. Y.
Exhibiting: The new Spaulding bobbin constructed of laminated plastic material combined with aluminum tubing—snag-free finish and dynamically balanced; the Spauldite headless package tube for taking up synthetic yarns—has high crush resistance; and a wide assortment of parts including separator blades, lap rolls, pirn caps, binder pins, bobbin heads, sizing tubes, etc.
Robert D. Marsh, factory mgr.
John E. Miner, sales engr.
Rodney A. Morgan, engr.
A. B. Kreger, Jr., sales engr.
Hotel: Ritz-Carlton

STANDARD PRESSED STEEL CO. — **606**
Jenkintown, Pa.
Exhibiting: Steel shuttle tips, made by the cold forming method, that have great strength due to continuous flow lines of the metal and are practically indestructible in use; two lines of threaded fasteners for the textile industry, including Unbrako socket head cap screws and button head screws, Unbrako self-locking socket and square-head set screws and regular, thin, and draper-hex Flexloc self-locking nuts.
John J. Wiest, Flexloc sales
Joseph W. Hattersley, Jr., sou. sales mgr.
James E. Harkins, N. Y. sales
William Tait, Boston sales

STEEL HEDDLE MFG. CO. — **365**
Philadelphia, Pa.
Exhibiting: Flat steel heddles, harness frames, reeds, shuttles, drop wires, Draw-tex heddles and frames, warp preparation equipment, etc.
Victor C. Hassold, pres.
Harry W. Fehr, vice-pres. & treas.
J. J. Kaufmann, Jr., vice-pres.
J. J. Kaufmann, Sr., chr. of bd.
Frank H. Kaufmann, mgr.
Hotel: Claridge

STELLITE AMERICAN CORP. — **806**
New York, N. Y.
Exhibiting: Stellite high speed pin drafter with two heads, each capable of delivering slivers of from 42-60 grains per yard up to 350-400 grains per yard; Thoma Co. pneumatic cleaners for ring spinning frames, Rotaflyer spinning method for roving frames, and the Card-Tho-Mat—a pneumatic broken end collector for tape condensers on woolen cards; the W.I.R.A. fiber length measuring machine which measures up to 500 fibers per hour; "Atlas of Blends" containing 3200 wool pads and formulas for the blends; "Atlas of Weaves" containing 10,000 different weaves; Autodinamografo, the fully automatic, single strand strength and elongation tester for yarn; a fan type revolving overhead cleaner for spinning frames and other machines.
Victor Saxl
H. Berberich
Hilda P. Levy
Hotel: Shelburne

STERLING ENG. & MFG. CO. — **364AA**
Wilkes-Barre, Pa.
Exhibiting: Self-stacking bobbin, cone tube, and quill boards made of cadmium-plated steel and stainless steel; aluminum quill boards and yarn handling trucks; self-stacking tube boards with flexible holder for yarn shrinkage.
George McGee, vice-pres.
Hotel: Dennis

STEWART-WARNER CORP. — **355**
Chicago, Ill.

SYKES, INC. — **450**
Charlotte, N. C.
Exhibiting: Card clothing and its components for cotton, woolen, and worsted processing; photos of some manufacturing departments.
C. E. Mason, pres.
Tom Pogson, sales rep. England
Norman B. Crowther, sales rep.
Roland Hesmondhalgh, sales rep.
C. P. Merrill, sales rep.
Robert J. Walker sales rep.
Royal Denico, sales rep.
Hotel: Messrs. Mason, Pogson and Crowther, The Shelburne; all others, The Traymore.

SYNTHANE CORP. 587
Oaks, Pa.
Exhibiting: A number of laminated plastic items, including a large size redraw cap for duPont's 1-7/8" dia. nylon shipping pirn, a one-piece redraw cap for Dacron shipping tubes, a collapsible bobbin which eliminates a number of costly production steps required to relax and preshrink nylon yarns, standard bobbins fabricated of Synthane, the latest hosiery turning and inspection form that permits turning stockings before inspection instead of after and eliminates picks and pulls during inspection, rayon cake holders, verge plates, headless package tubes, sizing bobbins and caps, and piping for nylon sizing machines.
Robert R. Titus, pres.
E. Eldridge Smith, sales mgr.
Herbert Widdop, asst. sec.
J. K. Johnson, Phila. dist. sales mgr.
Clarence B. Moss, S. E. dist. sales mgr.
R. B. Galloway, sales rep.
Dave Carrison, sales rep.
Oliver L. Smith, sales rep.
M. B. Firehock, sales rep.
Hotel: Seaside

TAYLOR INSTRUMENT COS. 551
Rochester, N. Y.
Exhibiting: An animated display featuring control and measurement instrumentation for beam, package, and piece dyeing, dye padders, and high speed slashers. Instruments include flow recorders, controllers and transmitters, process timers, "Ful-Flex" controllers, liquid level controllers, volumetric recorders, temperature and pressure gauges, and industrial thermometers.
H. G. Olson, mgr. tex. ind. sales
F. S. Ward, gen. sales mgr.
A. J. Fleig, ind. sales mgr.
J. S. Detwiler, div. sales mgr.
R. J. Brannigan, N. Y. sales
J. E. Anderson, Phila. sales
Hotel: Marlborough-Blenheim

G. H. TENNANT CO. 870
Minneapolis, Minn.
Exhibiting: New floor treating materials, including special finishes for wood floors in weave rooms, spinning, and carding; a new concrete hardener that densifies and retards dusting with one coat; a concrete floor seal that helps reduce dirt adhesion, makes sweeping easier, and retards oil penetration. An improved vacuum-equipped power sweeper that is capable of cleaning 100,000 sq ft per hour. A new V-Mop with strong tubular steel frame adjusts to paths from 6" to 57" wide and sweeps floors up to 30% faster than a straight mop.
Orville Hognander, sales mgr.
George Billings, adv. mgr.
Robert Lindhoe, div. mgr.
Richard Crickmer, Wash. mgr.
Warner Emerson, account mgr.
Patrick Manfra, sales rep.
A. H. Jackson, sales rep.
Hotel: Chalfonte-Haddon Hall

THE TERRELL MACHINE CO. 277
Charlotte, N. C.
Exhibiting: Type L bobbin cleaning machine; Type K bobbin cleaning machine; bobbin conveyors; bobbin box hoist; Denman pickers and loom supplies, information on Economy baling presses; also the new Type M roving bobbin cleaning machine.
W. S. Terrell, vice-pres. & sales mgr.
E. T. Gavin, rep.
J. R. Hartmann, rep.
J. P. Notman, rep.
M. H. Ridenhour, rep.
J. E. Scott, rep.
P. A. Sloope, rep.

THE TEXAS CO. 345
New York, N. Y.
Exhibiting: Texaco textile lubricants.

J. J. Clark	W. P. Warner
G. B. Maupin	J. M. Hackney
C. W. Meadors	A. R. Dunphy
C. T. Hardy	A. H. Baker
F. M. Edwards	F. Reich
H. E. Meunier	L. M. Smith

TEXPLANT CORP. 1007
Stamford, Conn.
Exhibiting: SKF roller bearing spindles, top weighting rollers, tape tension pulleys, and drafting element conversions manufactured by Zinser Textilmaschinen (Germany); Nitrided steel and special steel spinning rings and aluminum and cast iron ring holders made by Reiners & Fuerst; also descriptive information and literature on the following: Schlumberger (France) machinery for blending, preparation, and spinning of wool, worsted, synthetic, ramie, flax, hemp, and jute long fibers under the short French system, including mixing intersecting drawing frames, intersecting machines, combers, high draft open gill boxes, etc.; A. Monforts (Germany) napping machines, drying and curing machines, cloth room equipment; Joh. Kleinewefers & Sohne (Germany) embossing, calendering, and cloth finishing machinery; Peter Wolters (Germany) card grinding and mounting equipment, roller grinding equipment.
Albert J. Lindell, pres.
Jerome A. Olwell, asst. to the pres.
Paul Fallscheer
Melanie Bergner
Emil Adolff
Hotel: Claridge

TEXTILE AGE 348AA
Greenwich, Conn.

TEXTILE BULLETIN 88
Charlotte, N. C.

TEXTILE EQUIPMENT CORP. 601
Greenville, S. C.
(See W. D. Dodenhoff Co.)

"TEXTILE INDUSTRIES" 451
Atlanta, Ga.
Exhibiting: Technical books and literature for textile mill management and production personnel.
Richard P. Smith, pres.
John C. Fonville, editor
John C. Cook, bus. mgr.
J. Frank Guest, assoc. ed.
George H. Dockray, assoc. ed.
Leon E. Seidel, assoc. ed.
Arthur C. Shaw, bus. rep. Boston
George Isherwood, bus. rep. Philadelphia
William K. Hoffman, bus. rep. N. Y.
Maynard L. Durham, bus. rep. Chicago
A. E. C. Smith, bus. rep. Cleveland
J. D. Parsons, bus. rep. Pittsburgh-Buffalo
W. Cliff Rutland, bus. rep. Charlotte
Walter M. Mitchell, Jr., asst. bus. mgr.
E. I. Leeds, Jr., circ. rep.
Walter C. Valentine, circ. rep.
Hotel: Ritz-Carlton

TEXTILE WORLD 357AA
New York, N. Y.

TEXTUBE CORP. 1009
Stamford, Conn.
Exhibiting: Paper spinning tubes and cops and wooden bobbins for handling all types of fibers.
Albert J. Lindell, pres.
Jerome A. Olwell, asst. to pres.
Paul Fallscheer
Melanie Berger
Emil Adolff
Hotel: Claridge

TON-TEX CORP. 43
Englewood, N. J.
Exhibiting: Transmission and conveyor belting; spinner belt (lapless endless); coner belt (lapless endless); card bands; doffer belts; licker-in belts; Ve-E-zy segmatic V-belting; vulcanizing equipment for making roll stock endless on machinery; gainer belts; loom and harness strapping.
J. S. Meyers, sales mgr.
T. A. Lombardi, asst. sales mgr.
A. N. Alexander, devlp. engr.
G. H. Rees, salesman
R. E. L. Holt, Jr., mgr. sou. office
D. R. Sellars, salesman
F. A. New, salesman
Hotel: Shelburne

TOWER IRON WORKS 906
Providence, R. I.
Exhibiting: Stainless steel acid ager, flash ager; and scray with driven feed rolls.
Waldo W. Smith, gen. mgr.
Harry T. Prince, mgr. ind. div.
Robert H. Scott, engr.
Frederick C. Bird, engr.
Lewis A. Prescott, design engr.
John Sullivan, erector
Hotel: Chalfonte-Haddon Hall

TRANTER MANUFACTURING, INC. 903
Lansing, Mich.
Exhibiting: "Platecoil" (replaces pipe coil) for tank heating and cooling—heats or cools 50% faster, takes one-half the space, weighs one-half as much, saves money, time, and manpower.
J. R. Tranter, pres.
L. S. Worthington, dir. of adv.
C. Wayne Loree, sales sup.
H. E. Guyselman, exec. vice-pres.
Robert Rowland, sales sup.
S. J. Stowell, mer. mgr.
Hotel: Ambassador

Stop by Booth 451

TI's editorial, business, and circulation representatives will be on hand to greet you. If you refer to the diagram of the main floor, you will see that we are just off the center aisle behind Fletcher Works and opposite Morrison Machine Works. A friendly welcome awaits you.

TRUMETER CO. 612
New York, N. Y.
Exhibiting: "Trumeter" measuring and counting machines—with and without printing devices and with mechanical, predetermined, and electro-magnetic motions—and featuring a new automatic resetting predetermined electromagnetic machine with totalizer; the "Maag" selvage printing machine for automatically printing trade names and other identification on fabric selvages.
Eric Seligmann, mgr.
A. Abel, dir. of Eng. plant
H. O. Jacobus, asst. mgr.
H. E. Linderson, rep., N. E.
G. M. Weswater, rep., N. J.
Hotel: Ritz-Carlton
Th. Huston, rep., Pa.
Ed Slaughter, sou. rep.
J. H. Aydelette, sou. rep.
Hotel: Chalfonte-Haddon Hall

TURBO MACHINE CO. 16CC
Lansdale, Pa.

TWIN DISC CLUTCH CO. 706
Rockford, Ill.
Exhibiting: Three completely new drives for textile machinery—(1) a new loom let-off, to be known as the Hydro-Tensor, which can be adapted to existing or new looms to provide and maintain uniform tension from full beam to empty beam; (2) an air-actuated loom clutch for existing or new machines which offers push button operation from single or multiple stations, and operates by direct air pressure in an expanding chamber; (3) the newly designed Hydro-Wynd drive winding tape—while automatically holding constant tension throughout the winding cycle.
E. H. Bennett
Ralph E. Walsh

U. S. BOBBIN & SHUTTLE CO. 360
Lawrence, Mass.
Exhibiting: Roving skewers; spools for warper, twister, drawing, roving, silk, wire, etc.; miscellaneous parts for all shuttles; shuttles—automatic, common, silk, carpet, duck; bobbins—loom, warp, wool frame, twister and spinning; silk quills, cones—wood, and wood cork covered; complete line of rings, shields, drivers, ferrules, bushings; warper beams, beam heads, tension plates, tie rods, repairs.
C. D. Brooks, pres.
R. S. Anker Simmons, vice-pres.
J. C. Fulling, sales engr., warper beam div.
E. W. Nash, salesman
L. Boucher, salesman
R. Boucher, salesman
R. E. Stevens, salesman
A. D. Roper, salesman
C. W. Hite, salesman
P. McLeod, salesman
M. L. Johnston, salesman
J. Locke, salesman
Hotel: Ambassador and Claridge

U. S. HOFFMAN MACHINERY CORP. 611
New York, N. Y.

Atlanta, 1881 — Atlantic City, 1954

The American Textile Machinery Association's 1954 Exhibition will mark the 140th Anniversary of the establishment of the industry, and its more than 70 years of progressive leadership in the industrial exhibition field.

The first textile machinery exposition was held in Atlanta, Ga., in 1881 and was planned to demonstrate to farmers how their cotton crop was manufactured into cloth.

That machinery show was held in a large frame and brick building especially constructed for the purpose, and it drew a vast and interested throng of sightseers, including bankers and business men. The result was that a group of the latter bought the building, and the exhibition machinery, and thus was started The Exposition Cotton Mills—still in operation in Atlanta on the original site.

Three decades later a formal organization was formed by textile machinery producers, and incorporated as Textile Exhibitors Association. It held its first meeting in 1913. Incorporators of that Association were: Frederick H. Bishop, Universal Winding Company; Lewis E. Tracey, Lewis E. Tracey Co.; Chester I. Campbell; Edgar F. Hathaway, E. F. Hathaway Co.; Edwin H. Rooney, Whitin Machine Works; Charles F. Hutchins, Crompton & Knowles Loom Works.

Frederick H. Bishop was first president.

The group sponsored at regular intervals machinery exhibitions according to provisions of their charter.

With the exception of one exhibition held in 1918 at Grand Central Palace in New York, all their machinery shows, elaborate affairs indeed, took place in the Mechanics Building in Boston.

In 1933, the National Association of Textile Manufacturers was formed and after that textile machinery exhibitions were held under its sponsorship—the last and biggest in Atlantic City in 1950.

The National was re-named the American Textile Machinery Association. Under the banner of its sponsorship the largest exhibition of textile machinery, appliances, and allied machinery held in the world is scheduled for the last week in April.

U. S. TEXTILE MACHINE CO. 124
Scranton, Pa.

John B. Kingsley, pres.
Pacific J. Thomas, vice-pres.
A. W. Thomas, Jr., sales mgr.
Fred C. Naye, sou. rep.
Nicholas F. Gubitose, asst. chief engr.
Russell Williams, research dept.
Victor A. Schiffer, tech. dept.
S. E. Stahller, controller
Hotel: Dennis

UNIVERSAL WINDING CO. 165 & 276
Providence, R. I.

Exhibiting: The Unirail uptwister producing 2-lb headless packages of nylon yarn on plastic and paper tubes directly from pirns and redrawn taper top bobbins; a new high speed vertical redraw equipped with emulsion and cleaning attachments and producing 2-lb taper top bobbins—also capable of producing parallel sided bobbins; an 8" traverse Model 10 ring twister demonstrating the twisting of plied nylon weaving yarn and flat Dacron; a new 9" traverse Model 10 ring twister equipped for wet twisting cotton yarn; two different take-up mechanisms demonstrating constant speed winding of precision packages of synthetic yarn furnished as from a continuous spinning machine or coating process; a twister coner equipped with 2 for 1 spindles demonstrating the combined twisting and coning of a wider range of yarns and deniers than heretofore possible.

Robert Leeson — J. R. Breen
E. O. Smith — H. D. Kernan
W. S. Warren — E. C. Parish
H. H. Richardson — W. J. Quinn
T. L. Cotter — J. W. Stribling
W. L. Faulhamous — J. A. Nasmith
L. E. Ffrench — J. F. Ernoult
F. P. Barrie — J. B. Brun
F. J. Barrows
Hotel: Marlborough-Blenheim

USTER CORP. 825
Charlotte, N. C.

Exhibiting: The Uster universal evenness tester which, when connected with companion instruments, is now able to serve as a positive check on every phase of the yarn manufacturing process from picker lap to finished yarn; the linear integrator—used with the evenness tester, it expresses the average percentage variation of tested materials in terms of average linear irregularity; the quadratic integrator—used with the evenness tester, it produces a coefficient of variation value for tested materials; sliver lap unwinding device for the evenness tester; an automatic slub counting attachment for the evenness tester; a Spectrograph for use with the evenness tester which automatically prepares a simple chart indicating repeats of unevenness in the tested material so that faulty manufacturing methods can be easily spotted and corrected; Lap Varimeter that measures inch by inch variations in a picker lap and the Varisignal Units which count and record at the picker the specific number of deviations of a lap from the control limits desired; a multiple bobbin attachment, a new accessory instrument for use with the Uster automatic yarn strength tester, which permits the continuous testing of up to ten bobbins at a time, reducing laboratory technician's time required; three models of Uster warp tying machines—(1) ties flat sheet to flat sheet, (2) leased sheet to leased sheet, and (3) leased sheet to unleased sheet or with or without leases; the new Schlumberger analyzer for wool and synthetics—it automatically sorts fibers in graduated lengths to easily obtain average length as well as formulating a fiber array curve; the Projectina, a versatile projection instrument for visual enlargement of a wide range of materials; the Servo-Fibrograph, Model 150, for fiber analysis of staple from ¾" to 2"—it automatically draws the curve and base lines from which staple length, upper half mean length, average fiber length, and uniformity ratio index may be easily calculated.

C. B. Bookout — A. E. Cutting
Hans Winiger — A. Schuler
B. E. Sweet — W. B. Floyd

VAN VLAANDEREN MACHINE CO. 503
Paterson, N. J.

Exhibiting: Constant speed tuber; 20-ton, 2-roll pneumatic embosser; combination examiner and tubing machine with automatic selvage guide; 15-ton pneumatically operated micro-set arrangement 2-roll padder; constant-speed, tensionless, automatic Dye Master jig; 3-roll combination rolling and friction hydraulic calender.

C. H. Van Vlaanderen, pres.
G. Van Vlaanderen, vice-pres.
C. Van Vlaanderen, treas.
Hotel: Shelburne
Guido Ricca, sales engr.
Adolph Barbera, sales engr.
Hotel: Claridge

VEEDER-ROOT, INC. 264
Hartford, Conn.

Exhibiting: Redesigned line of pick and hank counters; the Vary-Tally; cut meters; and counters for every section of the mill.

G. L. Logan, sales mgr.
T. Nelson, field sales mgr.
W. T. Heydt, dist. mgr.
F. J. Swords, sou. dist. mgr.
R. G. Perfect, sales rep.
G. M. Isbell, sales rep.
H. B. Huff
R. C. Conant
R. E. Walker, sales engr.
R. E. Moller
Hotel: Shelburne

VICKERS INC. 711
Detroit, Mich.

Exhibiting: Oil hydraulic piston pumps, piston motors, and transmissions.

F. T. Harrington, vice-pres., sales
R. E. Esch, gen. sales mgr.
E. O. Clark, ind. pro. sales mgr.
M. R. Tyson, sales mgr., Atl.
E. J. Doucet, adv. mgr.
R. A. Shartle, sales mgr., Summit, N. J.
Hotel: Traymore

VICTOR RING TRAVELER CO. 254
Providence, R. I.

Exhibiting: Space for friends and customers to rest.

E. R. Jerome, pres. & gen. mgr.
B. H. Waterman, service engr.
E. L. Connor, service engr.
E. Cranshaw, service engr.
Walter L. Hudson, service engr.
C. H. Green, service engr.
C. W. Wilbanks, service engr.
William T. Horton, service engr.
F. P. Bodenheimer, service engr.
Hotel: Shelburne

VIRGINIA-CAROLINA CHEMICAL CORP. 885
New York, N. Y.

WALTON LABORATORIES, INC. 266
Irvington, N. J.

Exhibiting: Unit humidifiers for storage rooms, manufacturing areas, etc., that feature simplicity of operation and installation which requires only electrical and water connections.

William Feldermann, pres.
Jack Feldermann, adv. mgr.
J. R. Lewis, ind. sales mgr.
H. Puttbach, sales rep.
R. C. Link, sales rep.
H. A. Byrne, sec.
Hotel: Shelburne

WARNER ELECTRIC BRAKE & CLUTCH CO. 855
Beloit, Wis.

WARNER & SWASEY CO. 48 & 294
Cleveland, Ohio

Exhibiting: Two Warner & Swasey Sulzer weaving machines, three operations of Pin Drafters processing Orlon; the Pacific converter processing Orlon yarns for the knitting trade by duPont's new heat stretch method.

E. R. Gardner, sales mgr.
H. P. Balsom, asst. sales mgr.
E. L. Vaughn, field engr.
G. M. Phoenix, field engr.
T. L. Stilwell, field engr.
Chas. Christiansen, field engr.
Herman K. Jennings, field engr.
Owen Kelly, field engr.
Hotel: Marlborough-Blenheim

WATSON-WILLIAMS MFG. CO. 582
Millbury, Mass.

Exhibiting: Shuttles and shuttle improvements for Draper and C&K looms; shuttles for woolens, worsteds, cottons, silks, synthetics, blends, shuttle eyes, tips, grips, etc.

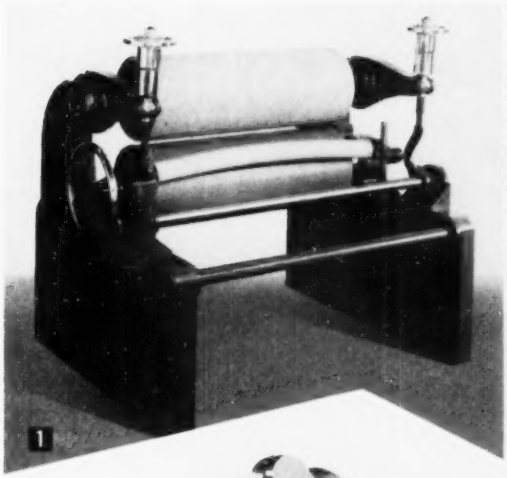
Wilbur L. Watson, pres.
Hubert J. Watson, treas. & sales mgr.
Raymond E. Norman, asst. sales mgr.
Guy C. Burbank, nor. rep.
John Wyatt, rep.
Arthur J. Bebn, sou. rep.
Hotel: Dennis

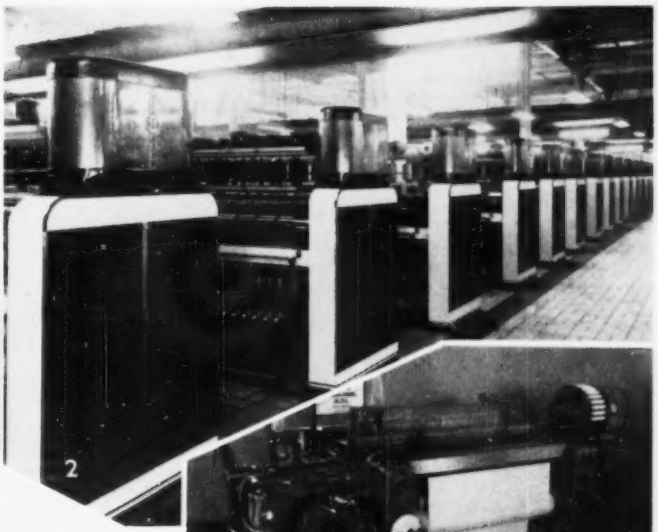
WAUKESHA FOUNDRY CO. 429
Waukesha, Wis.

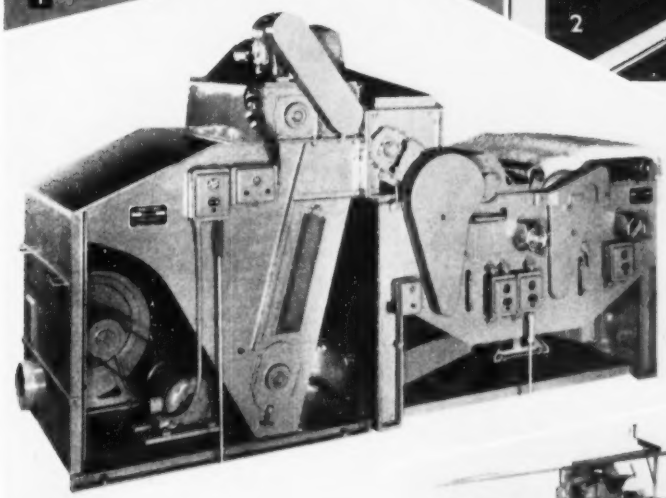
Exhibiting: Positive displacement type pumps for pumping sizing, dyes and similar products; also stainless steel castings for textile equipment.

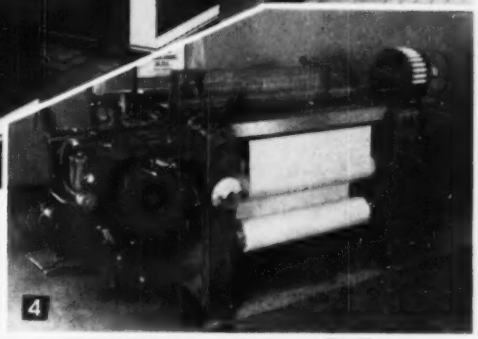
E. H. Howe — R. R. Watt
John Weaver — C. E. Schick
Hotel: Ambassador

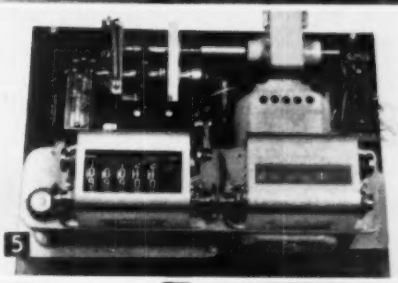
Look for this equipment at the Big Show

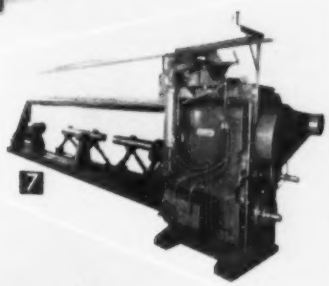


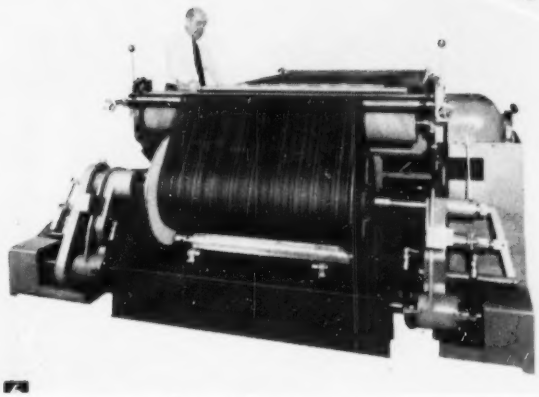


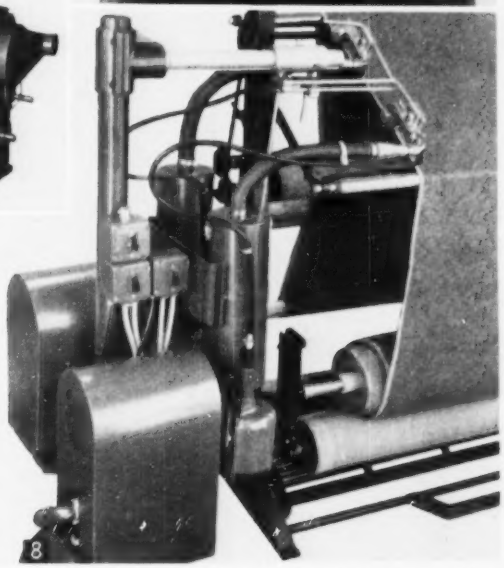












1. Butterworth padder with micro-set pressure arrangement and featuring standardized roll sizes.
2. Spinnbau worsted ring spinning frames with broad belt high drafting (American Schiess).
3. Curlator Corp.'s Rando-Webber and Rando-Feeder, Model 40.
4. Saurer super-speed, single shuttle, automatic weaving loom.
5. Automatic resetting predetermined electro-magnetic machine by Trumeter (cover removed).
6. Bachmann Uxbridge automatic slasher head end featuring automatic doffing.
7. Allen warper, Model H-3, for one carpet beam or two small beams.
8. Individual selvage trimmer to be shown by Ginsberg Machine.

WERNER MACHINE CO., INC. **120**
Passaic, N. J.
Exhibiting: A 120" tricot and lace resin finishing padder; a 50" deep pattern embossing calender—inlay and top tipping attachments have "colorized" embossing in a simple operation, all done on the calender at the same time that the embossing takes place; underwater cylinder boil-off and dyeing machine for sheer and tricot dyers and finishers—utilizing perforated reel and pump principle, it cuts dye and boil-off time to a minimum; an all-new Model 36 constant lineal speed dye jig for heavy duty such as corduroy and duck; automatic suction slot sealers.
Werner P. Rose
Alfred R. Gessinger
Robert E. Kuhn
Hotel: Dennis

WERNER TEXTILE CONSULTANTS **86**
New York, N. Y.
Exhibiting: Multi-motor slasher drives; a medium size textile mill showing all operations from opening through winding, including auxiliary equipment for materials handling and cleaning, plus service areas and facilities for administration. Space in which to rest and relax.
Herbert L. Werner — Jack C. Werner
Rudolph M. Asher — Stephen I. Rudo
J. Paul Mills — Paul Stokes
Hotel: Shelburne

WESTINGHOUSE ELECTRIC CORP. **95**
Pittsburgh, Pa.
Exhibiting: Multi-motor slasher drives; textile control equipment; Type E nonventilated transformer for light circuits in lint laden air; new gearmotor for cotton card drive; new loom motors; Micarta equipment; air conditioning equipment; new N.E.M.A. design motor.
A. W. Rose — W. W. Ballew
R. L. Horgan — J. H. Reeves
R. M. Scott — C. P. Walker
J. J. Marum — F. T. Benner
M. A. Land
Hotel: Ritz-Carlton

WEST POINT FOUNDRY & MACHINE CO. **574**
West Point, Ga.
Exhibiting: Literature on slashers, corduroy cutting machines, cross brushers ("crossers"), treadle brushers ("treadlers"), and size kettles.

West Point continued
T. J. Lane, sales mgr.
R. L. Mundhenk, asst. sales mgr.
R. F. Guill, sales engr.
S. S. Rice, sales engr.

WHITIN MACHINE WORKS **24, 180, 289, & 884**
Whitinsville, Mass.
Exhibiting: In Booth 180—Ten machines, several of which are entirely new and the others extensively improved: A completely integrated unit of Whitin American System machines consisting of the new Whitin Roto Drafter (1) for processing top to sliver by utilizing the controlling action of a rotor which has open pins whose positions change during their contact with and control of the stock, a roving frame (2) with improved weighting and ratch control among other features, and a spinning frame (3) likewise specifically adapted to spinning of worsted, synthetic, or blended yarns; a new high speed fully automatic winder (4) for filling bobbins is totally different from any winder now available; for processing cotton and synthetic staple fibers, a modern draw frame (5), a large 12" x 6½" Inter-Draft roving frame (6), and the latest model spinning frame (7); the new model wool spinning frame (8) including more than 20 design changes affecting machine speed and production, twist and draft control; a heavy duty high-speed uptwister (9) currently used for tire cord; and a heavy duty, all-purpose ring twister (10) incorporating features necessary for high speed, low cost twister operation.
In Booth 289—A direct spinner for production of fine count synthetic staple yarn from continuous flat filament tow—manufactured by Societe de Constructions Mecaniques de Stains.
In Booth 24—A large number of repair and replacement parts.
In booths of accessory manufacturers, the Whitin Model J comber and Model L card may also be seen.
J. Hugh Bolton, pres.
R. J. McConnell, vice-pres.
Harry Moss, vice-pres.
R. I. Dalton, vice-pres.
R. A. Hargreaves, sales mgr., syn. yarn div.
John H. Bolton, Jr., mgr. Am. system div.
B. B. Peacock, sou. sales agent, Atl.
R. W. Dunn, sou. sales agent, Spartanburg

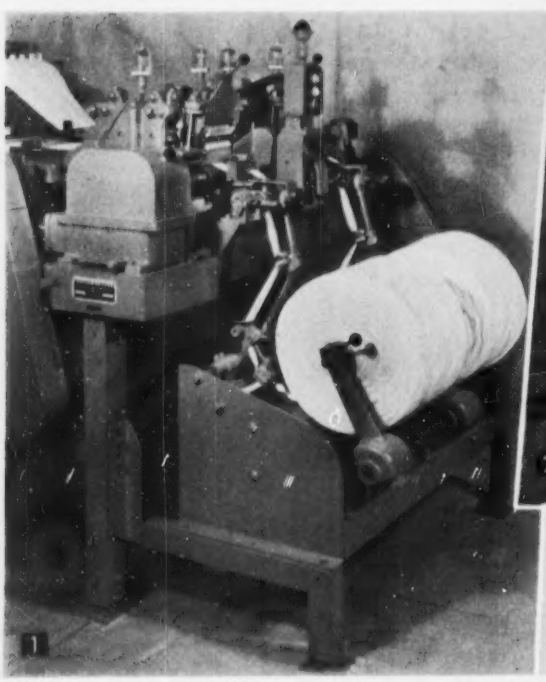
THE WIESNER-RAPP CO., INC. **866**
Buffalo, N. Y.
Exhibiting: A laboratory size Barotor, the duPont simple, open-width, tensionless, wrinkle-free, rapid-leveling, pressurized, fabric dyeing machine for all fabrics, especially synthetics (this company is licensed to manufacture the full-size Barotor, the lab size, and the loading and unloading creel; one of its special features is the patented quick-opening door); also a lab size model three-roll padder with variable speed motor and hydraulic pressure system.
W. W. Arnold, vice-pres.
Alexander F. Schenk
Hotel: Madison

WINSOR & JERAULD MFG. CO. **100**
Providence, R. I.
Exhibiting: A new cub tenter; new high speed roller chain; T-4 head end; tenter frame accessories and tenter chains.
Edward Wharmby, gen. mgr.
Matthew M. Zuck, exec. vice-pres.
Cecil C. Keyworth, head of sales dept.
Edward H. Olausen, shop supt.
Albert J. Cole, mgr. sou. div.
Hotel: Shelburne

WOONSOCKET NAPPING MACHINERY CO. **118**
Woonsocket, R. I.
Andrew McGoldrick, pres.
Peter Malay, asst. mgr.
Joseph St. John, serviceman

WRIGHT-BATCHELDER CORP. **838**
Boston, Mass.
Exhibiting: The Shepherd caster which has two smooth hemispheres that protect the usual points where ordinary casters become bound—permanent lubrication, free swiveling and mobility, plus minimum maintenance are features.
Charles F. Batchelder, Jr., pres.
Joshua B. Richmond, mgr.
Paul Cook, sales engr.
Hotel: Traymore

YEOMANS TEXTILE MACHINERY CO. **Stage, Second Floor**
Spartanburg, S. C.
Exhibiting: Scharer fully automatic pirn winders.
Charles L. Yeomans, agent
(See Scharer Textile Machine Works)



1. Warner & Swasey's balling head pin drafter. **2.** Power sweeper by G. H. Tennant.
3. Miller dust and vapor tight light fixture.

FORMICA-TOP inspection tables in use at Airmaid Hosiery Mills, Dallas, Texas.

Pairing and Inspecting Full-Fashioned Hosiery

-S-P-E-E-D-

Staff Prepared

EXCLUSIVE

AN INSPECTION TABLE with a white Formica top is speeding the pairing and inspection of hosiery at Airmaid Hosiery Mills, Dallas, Texas. Using this table, inspection and pairing are done in one operation, making it possible to do both these operations in very little more time than was formerly required for each separately.

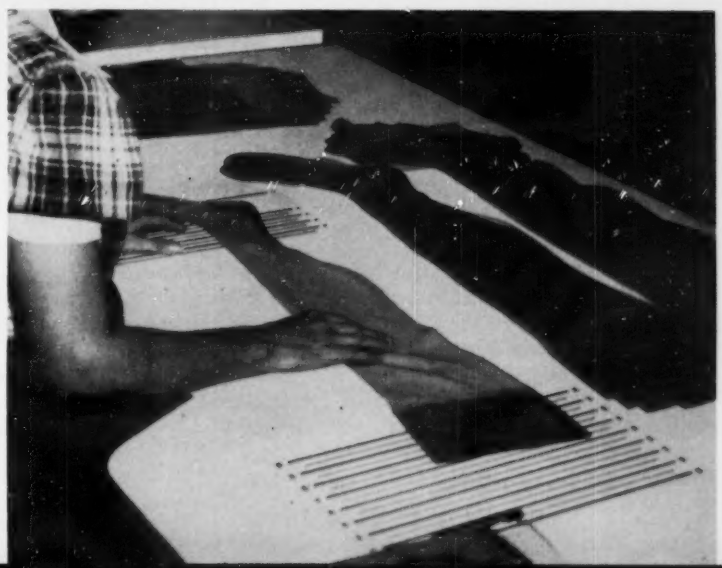
Each inspector has her own table which is so designed that there is a cut-out area in front, permitting her to move her stool into a position in which she has access to table area on three sides.

The most important feature of the table is its white Formica top, which has a semi-gloss finish to avoid glare, while still being light enough for the inspector to see through the two thicknesses of the stocking and note any flaws or imperfections. The ease of inspection is clearly demonstrated in the photograph.

The Formica top of the table has inlaid into it measuring lines which make it possible for the operator to pair the hose and check the length of the heel at the same time she looks for flaws.

The tables were designed at Airmaid and manufactured to their specifications by the Formica Company.

MEASURING GUIDES are inset in the Formica table top.



This mill likes to

VACUUM CLEAN ABOVE

Staff Prepared

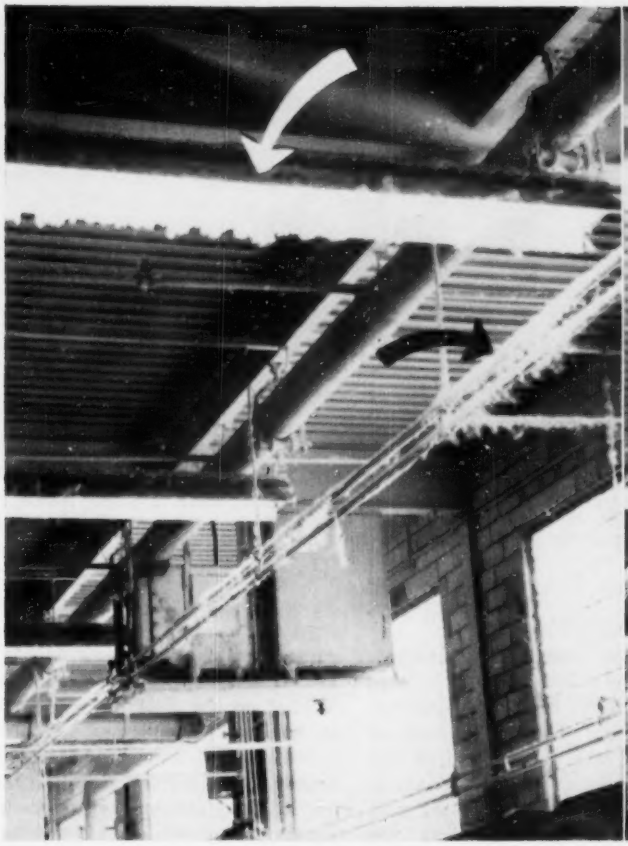
Vacuum cleaning has its limitations, but when tailored to the individual mill, it serves a useful purpose.

NO MACHINERY IS STOPPED when overhead cleaning is done with vacuum system. Note lint and fly accumulation on pipes and lights at top. Employee has partially cleaned light fixture (rear) with metal attachment.

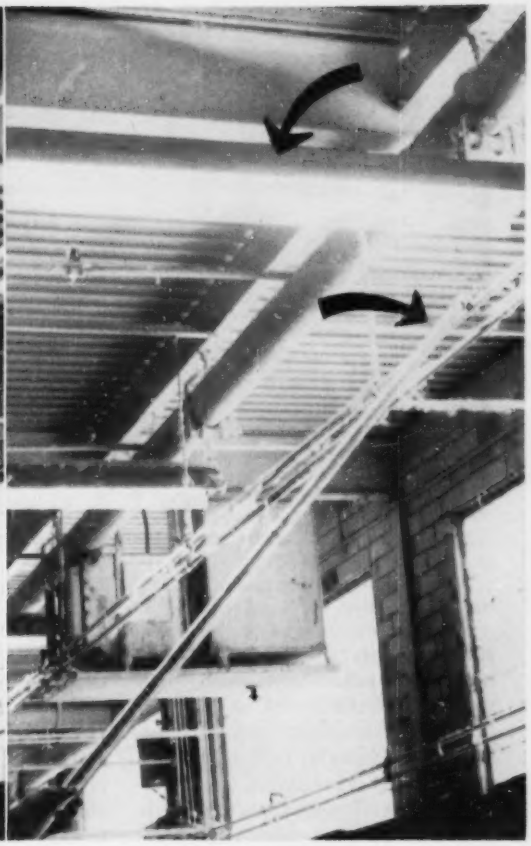
EXCLUSIVE

A SMALL textile plant which manufactures sheeting is using a portable vacuum unit for cleaning overhead during working hours. Results: blowing-down overhead eliminated, no covering up equipment while cleaning, no slubs and gouts following the customary overhead clean-up, no tough Monday morning start-ups because of lint in the work, no sweeping after cleaning, no disgusted operatives due to cleaners' mistakes, and no contamination of the product.

The equipment, with its attachments, is versatile enough to use for floor sweeping, cleaning of warps, beams, windows, walls, and other parts of the plant or machinery if necessary, but the sheeting mill is primarily interested in the overhead job.



BEFORE. Showing accumulation on lighting fixtures and pipes. Lighting fixture at top is very dirty. Portable unit is being moved into cleaning position. No cover cloth is used.



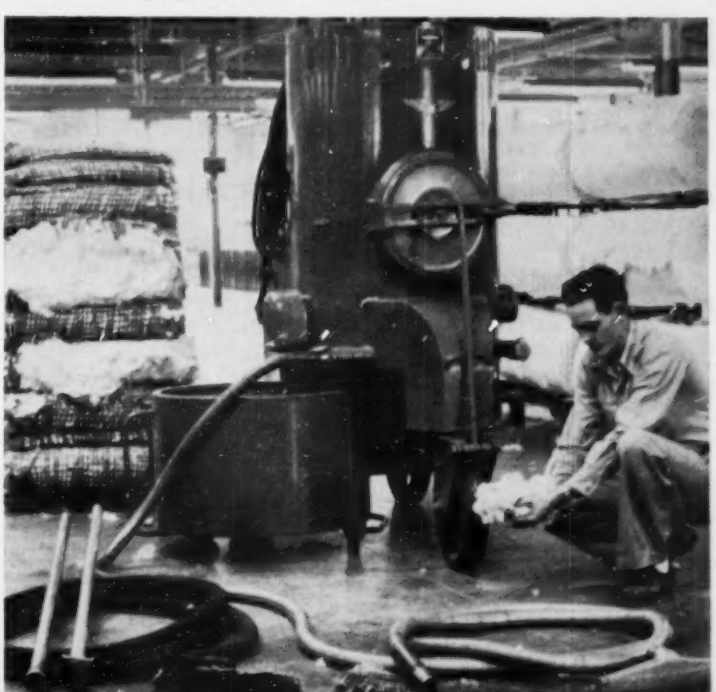
AFTER. Same view as at left. Lighting fixture has been cleaned in matter of seconds. Pipes come next. Machinery continues to run. No lint falls into stock.

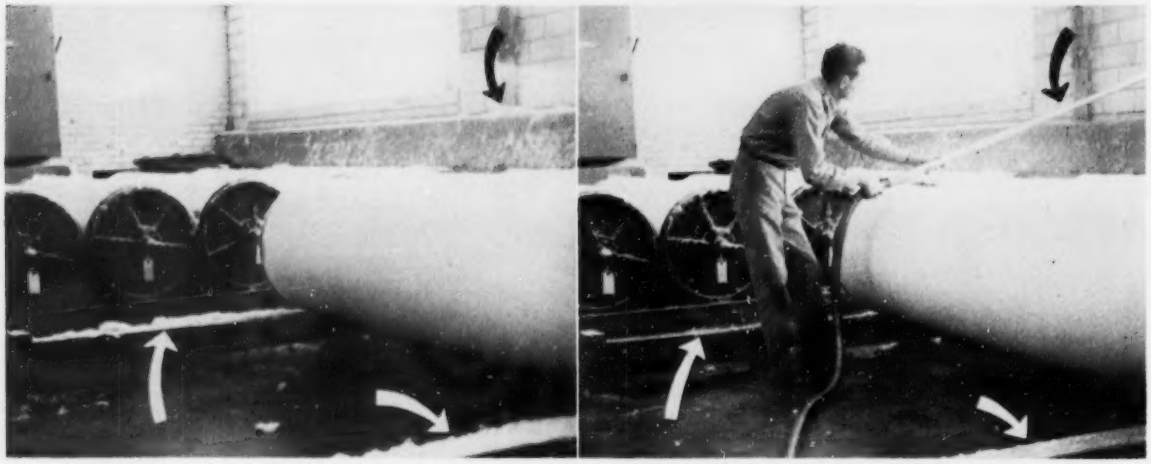
Fewer Manhours. Prior to the use of the portable vacuum unit, cleaning was performed on the weekends, with six to eight men being used every two weeks in the weaving department alone. That was overtime pay, too, or some employees had to be sent out during the week to report back for cleaning on Saturday—not exactly a happy situation. Now with the one portable unit an experienced man can do the overhead cleaning in all departments and still have spare time for other duties.

The overhead cleaning schedule for this plant calls for vacuuming the card room every seven days, slubbers-winding-spinning every 14 days, the weave shed every 21 days, and the slasher room every two months.

With the easier Monday morning

PORTABLE VACUUM UNIT AND ATTACHMENTS. Connections are carried on the main unit. Collector box is shown released for cleaning. Employee holds sample of lint and fly collected by overhead cleaning. Brushes for walls and windows, and conventional floor sweeping attachment are shown.





TAILOR TO MILL NEEDS. These two photographs show lint on beam rack, beam, heating system cover, and window sill. Employee made quick passes with vacuum cleaner to show speed and effectiveness, and then began cleaning wall and window. Unit also is practical for cleaning beneath spinning frames.

start-ups, an increase has been noted in production; also, bad work and seconds due to lint falling are practically non-existent. Employee morale is greatly improved since vacuuming was started because all operatives detest the overhead blowing-down and cleaning periods.

Although the overhead cleaning is done during working hours and around or over all types of equipment, there has been no accident.

Tailor to Your Needs. The portable unit has been tried experimentally in many places in the plant, such as for cleaning the drop wires at the loom. It was not satisfactory for this purpose because, though it cleaned the lint on top of the warp, it also pulled the lint beneath the warp into the wires and warp. Therefore the idea was discarded.

Cleaning beneath the looms was also tried; this too, was discarded, because unless the operator was especially careful, the cloth was soiled when the hose touched it.

The mill superintendent is elated over the success of vacuum cleaning as applied to overhead pipes, lighting fixtures, walls, windows, and even machine parts, but he is quick to point out that vacuum cleaning also has its limitations. He does feel that the portable units will be an asset to almost any type of plant, provided the vacuum system principle is studied and applied to the individual characteristics of the mill.

For instance, he pointed out the possibility of having a vacuum system in any department of the plant, provided lines were available, by simply attaching the unit to an outlet. In that way the vacuum unit could supply cleaning power to the far end of the room, eliminating the necessity of moving the unit.

The vacuum unit in use at the sheeting mill was manufactured by U. S. Hoffman Machinery Corporation, is powered by a 7½hp motor, and has accessories of aluminum overhead cleaning tube, both metallic and rubber hose, floor rod with hose swivel, and various brushes and end adapters for different types of cleaning, all carried on the unit. It produces a suction of 7.8″ mercury.

In use, the lint or material is drawn through the connection into the dust collector, fine dust being separated by filters. After a long cleaning period, the collector may be emptied easily.

Since with conventional overhead cleaning methods the lint would fall on the floor and be classified as sweeps, the sheeting mill also classifies the lint removed by vacuuming as sweeps, though it is much cleaner. Wet and oil soaked material should not be passed through the unit.

Tailoring Vacuum Cleaning to the Job

SINCE cleaning in a textile plant is a tremendous cost, mill men for years have tried various and sundry methods of picking up by suction rather than blowing-off (and back on again) by compressed air. Many mills use the vacuum system for special jobs, but the opinion of mill executives is that the manufacturer who invents the all-purpose vacuum cleaning system for the entire plant will be even more popular and richer than the fellow who builds a better mousetrap. Until such time, mill men will go on tailoring vacuum systems to their specific requirements.

Air Conditioning Ducts. For instance, a worsted mill uses a portable vacuum unit for overhead cleaning in the card room, the principle being the same as described in the foregoing story, and also cleans the exterior of the duct-type humidification system all over the plant. For this purpose the vacuum unit is performing satisfactorily.

Special Machines. Other mills have found the portable units

adaptable for cleaning machinery such as winders, where gouts and slubs can prove to be especially objectionable. When contamination is a problem in plants running different fibers or dyed rawstock and white stock in the same room, the vacuum system serves a useful purpose of collecting the lint and fly instead of blowing it into the air to settle on other stock.

Power Plant. One mill uses the equipment in its power plant to combat the nuisance of dust around pulverized coal installations, but does not extend the principle to its textile processing operations.

Central Station Vacuum Cleans Looms. The central station type of vacuum cleaning is employed by one sheeting mill for cleaning certain parts of its looms. The power unit is located in a different part of the plant, with the vacuum lines running to the weave room and outlets conveniently located on the posts. A 50-ft length of hose is connected to the outlets, which are 2¾", and 1¾" hose is used. The vacuum pull is 7½" to 8" of mercury.

In use, the operative stops the loom and cleans the breast beam, handrail, arch, harnesses, harness straps, and harness rod on top of the loom, then cleans beneath the loom by drawing out the accumulation of lint. Next he runs the cleaning nozzle over the rocker shaft, cam shaft, back girt, and floor. Sometimes the cam shaft cannot be cleaned if the roll of cloth is large.

The vacuum on this system is strong enough to pick up bobbins and small loom parts. These usually are held to the nozzle of the hose and are removed by hand; occasionally a piece of metal or a broken bobbin will enter the hose or pipe system, requiring removal. However, if the end of the nozzle is closed sufficiently, these will not enter and the vacuum is not disturbed.

Very satisfactory performance is being secured at this plant. No metal is used on the outside of the nozzle, or where the nozzle would be, and the rubber end of the hose is moved along to give a brushing action, which loosens the lint for the vacuum to pick up.

During this cleaning operation the lay is pulled to the fell of the cloth. Cleaning is done from the weaver's alley. The operative cleans 60 to 65 looms per day (8 hours), and cleaning is more difficult under the humidifiers. Each loom is cleaned on an average of every 96 hours.

Drop wires cannot be cleaned with this vacuum system because, as previously noted, lint is pulled from under the loom into the wires. Slubs have been reduced considerably since using the vacuum system. However, compressed air is still used for cleaning overhead in this weave room.

Since the shedding on the wide sheeting looms is heavy, management considers cleaning beneath the looms with the vacuum system essential in reducing the fire hazard.

The waste from the central system brings a higher price than weave room sweeps.

Converted - Homemade Vacuum. Still another sheeting mill is using a different type of portable vacuum cleaner to remove accumulation from the loom arches, handrails, top of harnesses, and harness straps. It is to be noted that all of the parts cleaned are above the warp and the cloth. The same unfavorable experience on cleaning drop wires was gained, so the idea was dropped.

This mill also found the unit unsatisfactory for cleaning beneath looms because the bulk of lint did not pass through the nozzle. The superintendent attributed this to letting the cleaning job go too long between cleanings and considered lint removal under the loom practical provided the cleaning interval was reduced—but he also thought the additional expense to be excessive. He considers the cleaning of the parts named a must for quality work.

The looms are cleaned twice weekly on three shifts of operation.

In the superintendent's opinion, the vacuum system for cleaning above the cloth and warp is a great improvement over hand wiping or

1954 Pay Trends Charted, Key Personnel Scarce

The coming months pose the biggest challenge to intelligent pay planning management has faced in years. 1954 will be the first year since 1949 when the accent is on normal peacetime output instead of defense production—yet employees will not recognize this fact in making their pay demands. Moreover, it will be the first time in five years when there will be more operatives than jobs—yet top talent and experienced men will remain scarce, and management must continue to devise new imaginative ways to attract and hold key personnel. So says the "1954 Pay Almanac," a new research study by William J. Casey, J. K. Lasser, and Walter Lord.

The Almanac, recently released by Business Reports, Inc., Roslyn, N. Y., surveys the major problems and opportunities in rank and file and management pay during 1954. More than 50 of the 166 pages present comparative data designed to help management set intelligent pay policies for executive, office, and production groups.

According to the Almanac, smaller pay increases, 3 cents to 6 cents an hour, and a continuing push on welfare benefits will feature wage settlements in 1954. For rank and file operatives, the trend is away from long-term pay contracts, escalator clauses; is toward cementing in past cost-of-living gains.

Guaranteed pay, despite union talk, is not likely to be an important issue in 1954, according to the authors. It is much more likely to come to the fore in 1955, when the auto companies negotiate a new contract. However, the Almanac warns that the guaranteed pay drive will start building up steam this year, and that management should begin preparing for future demands now.

Eliminate Artificial Trade Barriers To Sell More Cotton and Textiles

Surpluses of textiles and raw cotton would soon disappear "if the cotton consumption capacity of the world were permitted to express itself," Robert C. Jackson, executive vice-president of the American Cotton Manufacturers Institute, recently told 250 alumni of Philadelphia Textile Institute.

Mr. Jackson said the big, under-developed regions of the world, where living standards and consumption of textiles are lowest, have barred trade by import quotas, currency manipulations, exchange allocations, and similar restrictive devices imposed by nationalistic governments.

This not only reduces overseas markets of American mills, he explained, but likewise brings new pressures on the home market here because the modernized textile industries of Western Europe, Japan, and other competing countries now seek to find a "substitute market" in the U. S.

Mr. Jackson added: "Today textile manufacturing is regarded as an over-capacity industry throughout the world.—But the fact which is far more basic in our outlook is that a comparatively small increase in the world's per capita consumption could change this surplus into scarcity and render totally inadequate the world's textile capacity.

"The great challenge is to contribute promptly and effectively to the elimination of artificial trade barriers in many other areas of the world and the restoration of currency convertibility and multilateral trade. As these objectives are reached, new opportunities are created for aiding the economic development of the world's under-developed areas."

Cautioning against viewing a tariff-cutting program as a panacea for world trade ills, the ACMI executive emphasized that a prime issue is the maintenance of a sound and prosperous American industry.

He spoke of the wide wage and cost differentials which run against the American textile industry and said the efficiency of American mills would have to be from 300 to 1000 per cent greater than foreign competitors—who have modern equipment and are not standing still in technology—in order to overcome the wage-cost disparities.

Mr. Jackson then set forth that the true test of any industry's efficiency lies in how well it serves the people of its own country. He referred to the million and a quarter textile employees of America who receive some $3 billion in wages annually, the $6 billion investment in U. S. mills and the $2 billion which the industry pays each year for American-grown cotton. Yet these factors of strength at home are the very elements of weakness in competition with low-cost foreign industries, he pointed out.

hand brushing. About one-third more looms are cleaned in the same length of time by vacuum as by hand. Furthermore, when the vacuum system is used the cleaning operative need not stop to pick out slubs which fall in the warp—a normal occurrence with conventional hand cleaning methods.

Because of the width of the vacuum unit at this sheeting mill, it is not adaptable to narrow alleys. After much experimentation, it was found that the unit worked better on a homemade portable stand with casters. The lint container which came with the unit was discarded, and now the mill uses the power unit housed in its own homemade affair with a much larger lint container which is dumped every two or three days.

The nozzle of the unit is metal. A 1½" hose is used with a nozzle having a ⅝" wide opening by 1⅜" across. Because the nozzle is not flexible, much of the vacuum is lost in passing over the loom. Also, the vacuum is not strong enough to pick up loose machine parts; nor will it pick up strings because they hang around the fan.

Despite the limitations of this converted vacuum cleaner, the management wouldn't do without it.

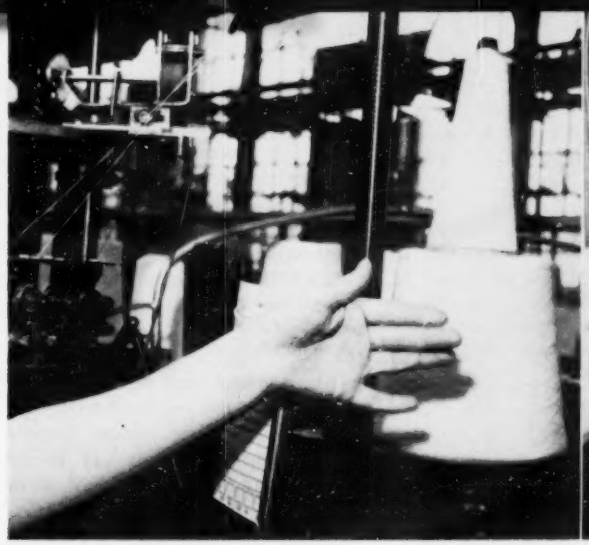
Card Cleaning. A foreign mill has advised that the cards are cleaned by vacuum. Two types of nozzles are used—one with a brush and air opening, and the other an aluminum tube. The brush loosens the lint and the vacuum picks it up. The tube is used for running along the side of the card to retrieve the lint.

Cleaning in this manner is said to be very expensive, but because of the peculiar labor situation and the health laws in the foreign country, it is considered advisable to clean as described rather than suffer the consequences if the card room is discovered dirty by health agents of the country.

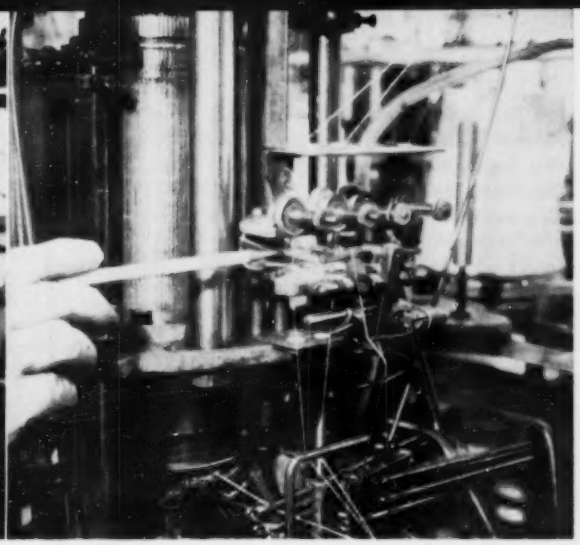
Hideaway System. Another type of vacuum cleaning can be used on small machines or motors. It consists of a machine which simultaneously blows and vacuums while the machine or motor is covered with a bag containing several zipper openings. The employee pokes the nozzle inside one zipper opening and moves the nozzle around over one side of the motor. The blowing action loosens the accumulation and the vacuum picks it up. The employee then moves to the other side of the motor or machine and continues the job. Purpose of the cover is to hold the blown-off accumulation inside the bag until the vacuum can retrieve it.

The principle of blowing and vacuuming was attempted by another enterprising mill man. He had the blower and the vacuum on the same extension so that the operative could move it along and loosen the lint with the blower, and theoretically before the lint was blown away the vacuum would catch it. It was an ingenious device, except that it was not appropriate for the work to be done and was discarded.

Experience shows that vacuum cleaning is practical for many purposes. But the mill must tailor it to its own local conditions.



TAILING KNOT on 1/20s wool yarn could cause trouble if correct feeders are not used. Two-ply wool makes larger knots than cotton; sometimes heavy singles make big knots.



TAKE-UP SPRINGS too light to pull slack on rough yarn while heel and toe gores are knitted may cause trouble. Also, lack of porcelain guides sometimes contributes to trouble.

If your circular mill is planning to run wool

or wool-synthetic blends, a practical mill man passes along this

EXPERIENCE THAT COUNTS

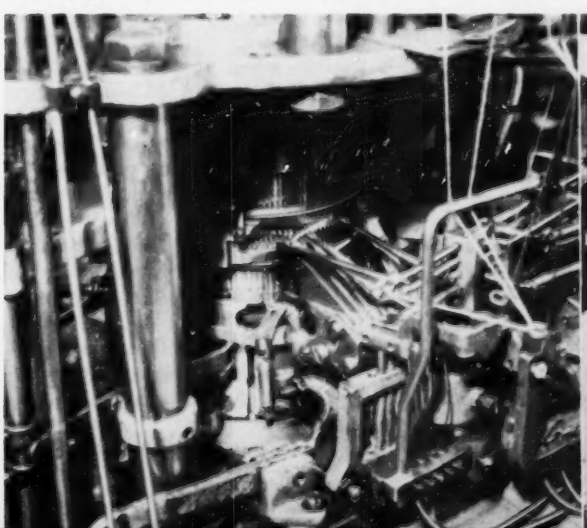
By Don Numan

EXCLUSIVE

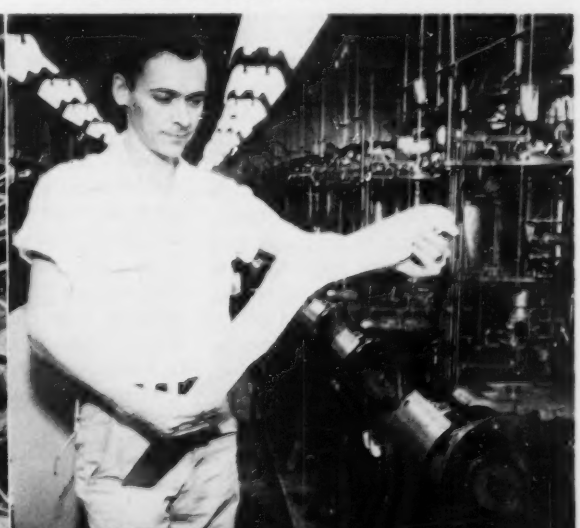
MANY hosiery mills have no doubt changed some of their machines from combed cotton and mercerized production to natural or dyed wool, wool and nylon mixtures, spun nylon, or other yarns which give a soft, fluffy feel in handling. Such a change is naturally appropriate in the search for more markets, styles, and combinations. However, any of the forementioned yarns will present some knitting problems which would not necessarily show up when knitting cotton goods. Likewise, any one of the yarns could bring on some particular knitting problem which would not develop on any of the others.

All of this means that when machines which have been tuned up to run mercerized or combed cot-

CUT STITCHES AT YARN CHANGE wreak havoc.



CHECK SIZES OFTEN to minimize variations.



ton are suddenly changed to wool or wool-like mixtures, anything can happen—and usually does. I have been asked repeatedly, which of the modern circular knitting machines will run wool the best. In all fairness, I must say any machine will run wool numbers satisfactorily, and with each machine there will be some minor problems to solve. Much will depend on how well and how fast the fixing and knitting staffs learn to run wool.

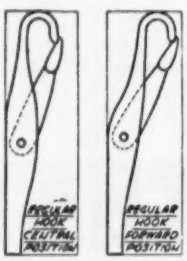
Apparently, the only people who actually prefer to knit wool are the English, Scotch, Canadians, and Australians. There may be reasons for the choice. Most of the operatives in American mills seem to prefer mercerized and combed cotton, and many superintendents, foremen, and fixers cannot distinguish shoddy from other wool—the last named stock will readily show the difference in any test to determine which yarn will run best.

Irrespective of the type of machines being used or whether they are fine gauge or coarse gauge machines, trouble will develop when machines are changed to wool, dyed, or otherwise. Here are a few things that will happen:

(1) More waste,
(2) More seconds,
(3) More thirds,
(4) More press-offs,
(5) More damaged needles,
(6) More variation in sizes,
(7) More miscellaneous knitting difficulties, some of which are never seen or heard of when knitting cotton yarns.

Waste. Most of the waste (in excess of the amounts normally made on cotton goods) is attributable to the wool itself. Two-ply heavy wool makes a large knot, and some heavy counts of single ends in dyed wool make big knots too. Add to this some bad winding, ends not tied, and underwinding, and you have some of the "why" in extra waste. Small gaps in yarn fingers, insufficient clearance for knots and heavy places in the yarn to pass through, the lack of porcelain guides in some places, and other minor causes add up to press-offs, and press-offs on any machine mean waste. Press-offs on some

WRONG SIZE YARN FINGERS sometimes provide insufficient clearance for knots. Small gaps in yarn fingers (produced by wear) also cause trouble by snagging and cutting.



TRY THIS CHANGE:

In some instances a needle change from central to forward hook helps

types of machines mean needle damage, and needle damage means more seconds and thirds. Take-up springs being too light to pull slack on rough yarn while heel and toe gores are being knitted cause loop-outs in heel and toe—more waste, more seconds, more thirds.

Seconds. Considerable cutting of stitches in yarn changes produces additional seconds in that the machines are not properly adjusted. On some machines it is necessary to change from central to forward hook needles. Since all wool must necessarily be knitted much looser than cotton yarn to give the required softness when finished, sinker cams and knockover timing must be reset to prevent heel and toe gore knitting difficulties. Also it is only reasonable to assume that some of the cutting of small holes in yarn changes is caused by sinker settings not being suitable to knitting wool.

Many machine fixers fail to grasp one simple fact; namely, when it becomes necessary to loosen stitches considerably on any machine, all sinker and knockover settings are affected adversely—they will have to be changed since the whole needle path and stitch formation points have been altered. Heavy and light places in the yarn help in cutting holes in various places, and this is a common fault. Also, on dyed wool certain colors cause more trouble than others generally. It is, of course, understandable that dark colors and "pepper and salt" mixtures would present some difficulties not to be found on white or very light colors.

Needles. Additional needles used per dozen knitted was not abnormally high in our mill, considering the lack of experience in running wool yarn. Needle consumption was up from two to four needles per dozen on the same lines of machines used to run combed cotton or other similar yarns. Most of the additional needle breakage was due to press-offs, and when one needle is damaged on wool, others on both sides will begin to load up, causing more bad needles.

Quite helpful in reducing waste and needle breakage were some needed improvements in stop motions. Some of today's so-called stop motions, electric and/or mechanical, do not deserve the name. These devices will, in most instances stop a machine if the yarn should run out, but large knots, slubs, bunches, twisted kinks, and similar defects keep going down to the yarn fingers and into the needles. Badly underwound yarn will usually cause these stop motions to act.

You are definitely inviting trouble when you switch to knitting wool, but wool can be run profitably; otherwise, mills which run more wool than any other yarn would have gone out of business long ago. How long it takes to overcome various difficulties depends largely on the fixers and knitters; experience helps.

We have found that much can be accomplished by following the simple process of elimination. Determine what causes most of the waste, get the fixing staff to con-

Screens Solve Waste Water Problem in Woolen Mill

Lebanon Woolen Mills, Lebanon, Tennessee, satisfied city official requirements for screening waste water before entering sewage system by using two Sweco vibrating screen separators. The woolen mill obtains a throughput of 800 gallons per minute (400 gpm each) of woolen waste water using 80 mesh screen cloths having wire openings of .0070". The system operates on 24 hour schedule.

Solids to be screened (5% of waste water) include linters, detergent chemicals, and "eyebrows" (short hairs from legs and shanks of sheep). Eyebrows are tapered in shape and measure .0034" diameter on the large end. They had previously caused binding on fine mesh cloth by passing half-way through mesh and wedging.

Seat Cover Fabric Is Flame and Tear Resistant

Nycar, a woven material of 900 denier high tensile strength rayon, has been introduced by the Ellenboro Mills, Inc., Ellenboro, N. C., a division of Neisler Mills, Inc. The dope-dyed yarn is made into colorful Jacquard and dobby patterns in 63-inch widths.

The new fabric finds its first commercial application in the automotive field as a seat covering material. Tests conducted over several years in the development stages revealed that Nycar is notably resistant to burns, tears, and abrasions. The fabric is pliable with a smooth hand, and an odorless latex backing provides additional protection and strength as well as a non-slip feature. The stain resistant finish is also water repellent. Another outstanding feature is the fabric's shockproof quality or electrostatic resistance.

The Case for Colored Selvages on Yarn Dyed Fabrics

If mills producing yarn dyed fabrics that are to be converted into shirts would use selvage yarns of the same color as the body yarn, instead of the customary white yarns, necessity for the garment manufacturer to cut the selvage off would be eliminated, thereby reducing his manufacturing cost, according to George W. Edwards of The Enro Shirt Co., Louisville, Ky.

Extract of Mr. Edwards' letter, which is self-explanatory, is published here for the information of those interested:

EDITOR TEXTILE INDUSTRIES:

For some time we have been trying to find a greige mill that would give us the same colored selvage on colored yarn piece goods as the colored ground, rather than the white selvage.

The reason for this is that in the cutting trade on colored yarn goods where the selvage is white, when laying up 3,000 yards of material for some 100 dozen garments, it is necessary for the cutter to cut off the white selvages which bring about a loss of 1.3% in material alone.

Furthermore, where the cutter has to strip off and cut out the white selvages on colored yarn goods, it is necessary to stitch the seam on the fronts of the shirts which is very costly to the cutting trade.

If the selvages were the same color as the ground of the colored yarn material, it would not be necessary to cut off the selvages for the selvages could be utilized in the garment as a seam.

On 50% of the new styles in shirts that are on the market today, the selvages could be used as part of the shirt front.

This in itself would create a substantial saving in the cutting trade in making up garments.

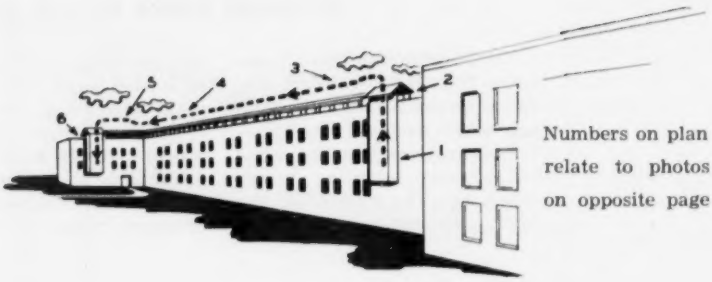
THE ENRO SHIRT COMPANY, INC.
George W. Edwards

centrate on that, then hammer at it every day until that problem is solved. Take the next worst offender and do likewise, and so on down the line. It can be done; it takes work, time, intelligence, energy, and above all determination to overcome the problems knitting wool will surely bring. If experienced help is not readily available, ask someone who has experience and is willing to share it.

Sizes. Variation in sizes is one of the problems which often arises. This, of course, can be kept to a minimum by checking sizes more often. All sizes should be checked at least twice for each eight hours run, even in mills which have wisely invested in humidity and temperature control systems. In mills which have no air conditioning, sudden changes from dry to rainy spells, especially in summer when windows are open 24 hours a day, will produce excessive variations in lengths. So keep sizing boards handy when it clouds up and check machines three times in 8 hours, unless you receive the benefits of air conditioning.

Out
Up
Across
Down
Into

Each day this
Filling Conveyor



Numbers on plan relate to photos on opposite page

Saves Labor of 9 Men

EXCLUSIVE

TO ELIMINATE the handling of 60 bobbin boxes each 8-hour shift from the spinning rooms on three separate floors in one plant to a distribution point in the weave room on the third floor of an adjoining plant, an automatic dispatch overhead monorail system was installed by a southern cotton mill.

The equipment consists of a MonoTractor (American MonoRail Co.) driven carrier operating between two towers mounted outside each building. The carrier includes a twin-hook electric hoist supporting an enclosed car into which three bobbin boxes weighing 400 to 450 lb each when full are rolled.

Operation of the System. Assuming that the carrier is returning from the weave room (No. 2 Mill) with empty boxes, it travels 403 feet of heavy duty monorail track across the roof of No. 6 Mill at 150 feet per minute, slowing down to 50 feet per minute at the track curves and coming to a complete stop immediately ahead of the tower for a slow approach to assure accurate spotting of the guide rollers within the tower frame.

When the carrier stops, the hoist lowers the car a short distance and comes to rest. At the same time, green signal lights are energized at the fire doors on all three floors of the spinning department in No. 6.

Operators on any floor may call the car to a location by pressing the "call" button on the push-button control. This puts the green light out on all floors, locks out controls on all other floors, and begins lowering the car to the proper floor. The car stops within 6 inches of the floor level and lights an amber bulb. The operator then lowers the car with the "down" button until a red bulb lights, indicating the floor level. If the operator over-runs the car, then the amber bulb relights so that he must use the "up" button to align the car, lighting the red bulb.

A motor operated roll-type fire door inside the building can then be opened by another push-button, which also cuts off all power to the carrier as well as to the other fire doors in the spinning department.

In case this operator does not want to reload full bobbin boxes after he unloads the empties, he closes his fire door, pushes the "reset" button which raises the car to the call level slightly below the carrier and at the same time lights all the green lights on the three spinning room floors.

Should operators on two floors press their "call" buttons simultaneously, the car will lower to the first one, repeating the previously described procedure.

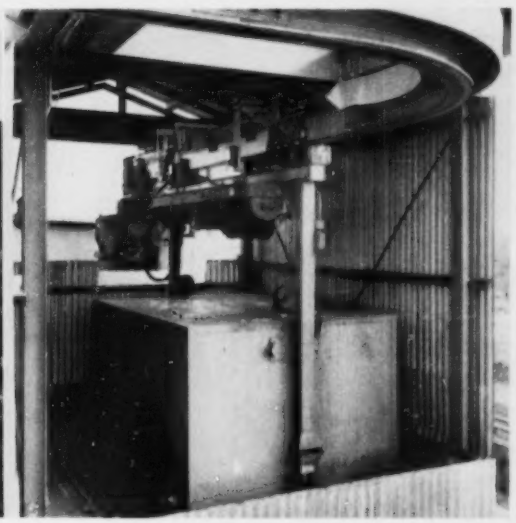
When a loaded car is dispatched to Mill No. 2 (weave room) after closing the fire door at location in Mill No. 6 (opening room) and depressing "run" button, the car raises to its upper limit on the carrier which then travels to the opposite tower—stops—approaches for alignment of guides—lowers car to the third floor, lighting the amber bulb inside. Same procedure here as in Mill No. 6.

All equipment is weather proof with shielded electrification on the monorail track.

Safety. For safety purposes, no doors can be opened unless the car is in position at floor level (red light) and conversely, the carrier cannot be dispatched unless the door is closed. Also when one door is open in Mill No. 6, the circuit is broken on the two other doors, making it impossible to open more than one door.

Savings. This system permits three men per shift to be used elsewhere. Formerly each man handled two boxes at a time, pulling one and pushing the other. Each trip involved the use of two busy elevators as well as further congestion through narrow aisles between machines. Savings over the old method include not only the man hours of labor per day, but also the wear on highly polished floors and damage to bobbin boxes. Estimated return on the investment runs upwards of $30,000 per year.

To move filling bobbins from spinning room to weaving



1. Trucks of bobbins in spinning room are moved into car inside tower.

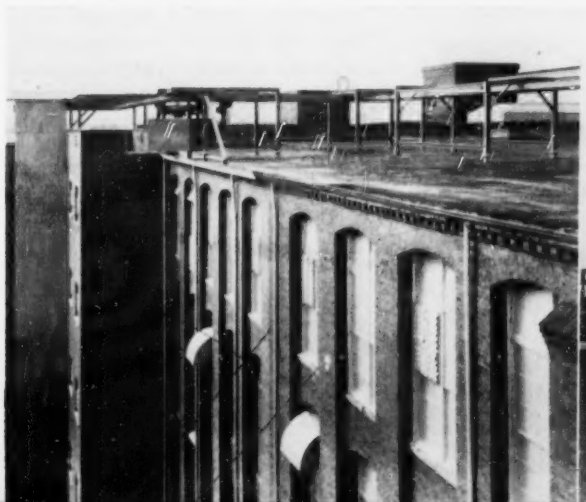
2. Responding to push-button control, car rises to roof of mill.

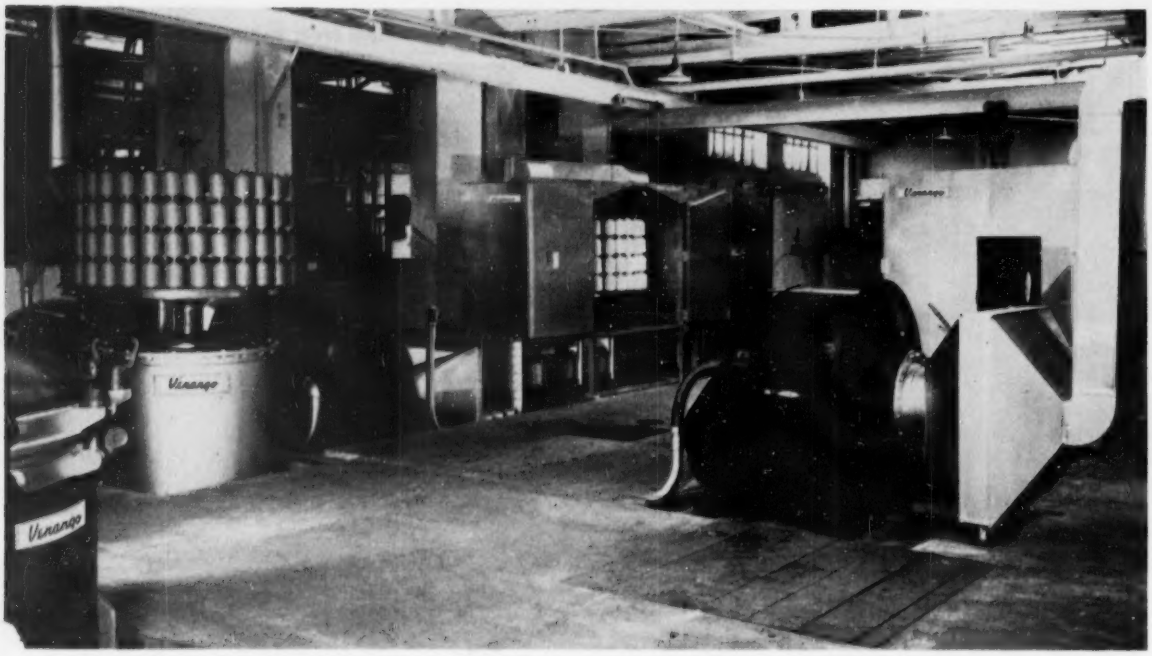
3. Car leaves tower and begins journey to weave room.

4. Car speed is 150 ft/min. Slower on curves.

5. Car at entrance to tower leading to weave room.

6. Descends to weave room with full load.





HIGH TEMPERATURE dyeing machines are aligned for orderly movement of packages from process to process.

No Hocus Pocus at Ankokas

Staff Prepared

EXCLUSIVE

THE LATEST high temperature package dyeing equipment and a materials handling system "form-fitted" to it are enabling Ankokas Dyeing and Processing Company to run through an order from start to finish in one quarter of the time formerly required.

"We can load carriers, dye, extract, and dry 1000 pounds of yarn in about six hours now," reports Ed Diehl, superintendent of this Mount Holly, New Jersey, plant. "We've cut out four man-hours per 1000-pound lot, lowered chemical costs 35 per cent, and have multiplied our plant capacity without adding new buildings."

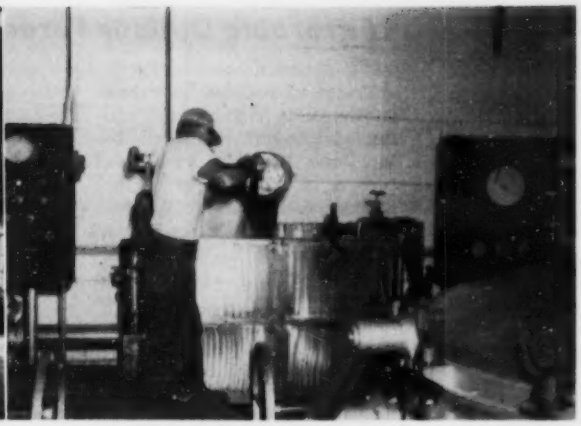
This makes fine reading for a profit and loss statement. However, it should be pointed out that such noteworthy improvement of efficiency comes only as a by-product. The real motive for installing this new equipment at Ankokas was to give the means to dye any fiber any shade, a purpose made urgent by the advent of many hard-to-dye synthetics.

As increasing quantities of acrylic and polyester fibers found their way into the dyehouse, it became evident that the techniques and machinery which were perfectly suitable for the older

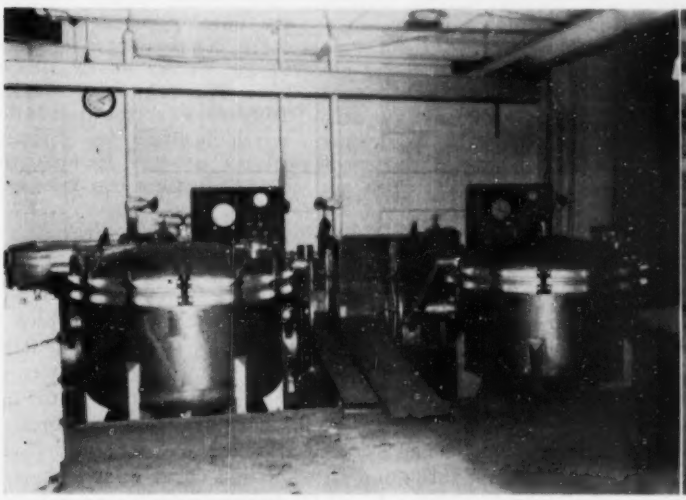
High temperature package dyeing machinery and a materials handling system supplement each other to produce a hard-to-beat dyeing operation.

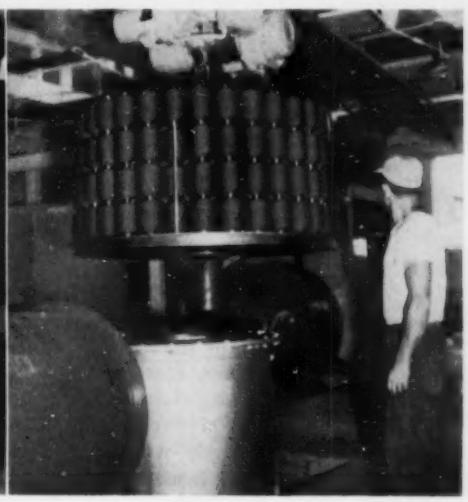
THEN—20 Hours		NOW—7 Hours	
Operation	Time (hrs)	Operation	Time (hrs)
(1) Pressing	2/3	(1) Pressing omitted	0
(2) Load two carriers	1	(2) Load two carriers	1
(3) Dye (190 F)	2	(3) Dye (260 F)	3/4
(4) Unload carriers	2/3	(4) Unloading carriers omitted	0
(5) Centrifugal extraction	2	(5) Vacuum extracted	2/3
(6) Loading tray dryer	1	(6) Transport carrier to port	1/12
(7) Drying (tray)	12	(7) Drying (port)	4-1/2
(8) Unloading dryer	2/3	(8) Removing carrier from port	1/12
Elapsed time:	20	Elapsed time:	7-1/12

PACKAGES ARE LOADED onto a carrier supported by a specially designed dolly. This is the last human contact packages have until completion of the drying operation.



DYESTUFFS ARE MIXED in tank and pumped into kier. Additions to the dyebath can be made during dyeing without loss of pressure by means of a "decompression" chamber.



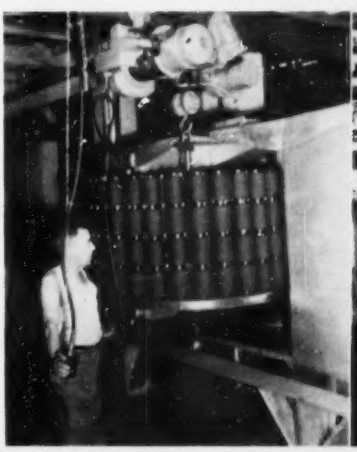


TWO 500-POUND KIERS (left) can function individually or in tandem at high or low temperature. Research has indicated that high temperatures promote dyeing by increasing the pore size of the fiber, decreasing the aggregation of the dye, and increasing the rate of diffusion. Dyer attendant, George Hankins (right), maneuvers a carrier loaded with dyed packages onto the port of a vacuum extractor which will remove excess moisture in 20 minutes.

fibers didn't meet the requirements of the newer ones. There seemed to be ample room for improvement of fastness, levelness, and penetration. Quality dyeing of these late-comer fibers is far more practical, and far more economical, at temperatures considerably above the operational limits of kiers designed for low to boiling point temperatures.

Ankokas worked out its high temperature dyeing essentials with the Venango Engineering Company. Two 500-pound capacity kiers, a vacuum extractor, and four port dryers comprise the installation. The kiers operate in

CARRIER IS LOADED by Calvin Angelow, dryer attendant, into one of the dryer chambers (left). Yarn is subjected to a blast of hot air forced through the package from the inside out. Right, companion piece to the mill installation is one pound laboratory model. It helps Al Cowan, PTI class of '52, ferret out answers to production problems.



Favorable Outlook Forecast for Textiles

Prices of textiles have been substantially reduced in "rolling adjustment" to levels below June, 1950, and an upward turn is in prospect for the not distant future, W. Ray Bell, president of the Association of Cotton Textile Merchants, recently stated.

Unlike many durable goods industries whose previous expansion had been uninterrupted since 1950, textiles have experienced three years of continuous adjustment and unabated competition, he stated. Prices and profits have contracted, inventories have been held down, and speculative accumulations of goods are lacking. Meantime there has been no slowing in the rate of public consumption, and prospects for heavy retail volume in soft goods in 1954 are generally considered favorable.

The new desires of a population of 161 million can now be more economically satisfied than at any time in the postwar period, Mr. Bell commented. Since the current situation was preceded by no speculative buying, has been founded on exceptionally stable cotton values, and involves little if any inventory loss, the background conditions are highly favorable for confidence and activity on the buying side.

Cotton Over-Dried for the Loan?

Much of the current rash of cottons whose spinnability has been damaged by over-drying can be traced to the practice of ginning cotton to place in the government loan, rather than to meet mill requirements. That is the opinion voiced by cotton buyers for several large mill groups.

By over-drying, an increase of a full grade can often be obtained, they say, with either no loss in staple or a loss of not more than 1/32-inch. Since grade and staple are the only factors considered in classing for the loan, a premium is commanded by cottons which are actually of inferior value to the mill.

In the buyers' opinion, the necessary first step in combatting this illusory up-grading is the development of a practical test for detecting cottons that have been over-dried. At present the only way that they can be differentiated from undamaged cotton before reaching the opening room is by the harsh hand they sometimes, though by no means always, have. The Institute of Textile Technology and the Textile Research Institute are studying several possible methods for quickly spotting over-dried co-

tandem or individually, at low temperature (190 F) or high temperature (260 F). These kiers are equipped with sampling chambers which allow feeding of dyestuffs and matching for shade without loss of temperature or pressure.

Special Features. Controls for the kiers are relatively few and simple, yet they allow a maximum amount of flexibility and automatic control. For example, two 500-pound lots can be dyed different colors simultaneously or a 1000-pound lot can be dyed one color, depending upon whether the pumping mechanism is set for individual or tandem operation of the two kiers.

Time intervals for a wide range of in-out liquor reversing cycles may be preset as package and color conditions warrant by means of a Flexopulse timer. Dyeing temperatures are regulated and recorded by a Gotham controlling unit. The complete dyeing cycle may be run manually or automatically. Using appropriate carriers, the kiers will accommodate raw stock, skeins, tops, rayon cakes, or cones.

Venango's machines are furnished with means to detect dye exhaustion during any phase of the operation. Essentially this consists of a backlighted glass tube through which the dye liquor is visible at all times. It is mounted on the kier adjacent to the sampling chamber.

Especially noteworthy about this equipment is its very efficient heat exchange unit designed for rapid heating or cooling of the liquors. Combined, all these features enable Ankokas to dye the most difficult lots in no more than 45 minutes.

Extraction and Drying. The vacuum extractor is powered by an 850 cfm Spencer turbine driven directly off the shaft of a 50 hp Louis Allis type OGX motor. It will remove excess water in 40 minutes without any labor cost as compared to two hours by centrifuging.

The four port dryers are aligned in pairs in two rows, each row being furnished hot air by a 3750 cfm Spencer turbo-compressor which is shaft-driven by a 75 hp Louis Allis type OGX motor. Each port is completely enclosed. Entry into the drying chamber is gained through hinged doors. A slot on topside fitted with a cover allows passage of the carrier spindle and hoisting block and tackle.

Extractor and dryers are vented to the outside for air intake and exhaust. There are three blast gates for modulating the flow of air to each pair of dryers. One is located between the turbo-compressor and heat exchanger. Another is located between the heat exchanger and the first port. The last one is located between the first and second ports.

The dryers operate at 260 F using superheated steam from a 125 psi boiler as its heat source. Since this hot air is forced through the package from the core outward, drying time is cut to a minimum. It takes only 4½ hours to dry a 500-pound load now as compared to the 12 hours required in the past.

Two months of intense effort

tons, based on the measurement of fiber properties which correlate with spinnability.

While there will probably be strong opposition to penalizing over-dried cottons which enter the loan, the eventual adoption of such a procedure is not beyond the realm of possibility. Certainly, the refusal of mills to accept over-dried cotton will have a decided impetus.

Use of Cotton and Nylon in Women's Wear Continues to Increase

The use of cotton in the manufacture of the principal items of women's outerwear continues its sharp upward swing, according to a recent Bureau of the Census report*. In 1950, 29 per cent of the blouses cut were made from cotton fabrics; by the close of 1952, 44 per cent of the blouses made by the women's, misses', and juniors' outerwear industries were made of cotton. Similarly, the use of cotton in the manufacture of dresses and skirts also showed significant increases.

The use of nylon also showed an increase in 1952, the report stated, particularly in the case of blouses and unit price dresses. In 1952, nylon blouses represented 17 per cent of the total as compared to 8 per cent in 1951. Unit price dresses made from nylon, although still very small, increased from one per cent of the total in 1951 to two per cent in 1952.

The increased usage of cotton and nylon in the output of dresses, skirts, and blouses was at the expense of rayon and acetate fabrics. Rayon and acetate untrimmed coats in 1952 represented only 14 per cent of the total as compared with 22 per cent in 1951, and 10 per cent in 1950.

In the case of women's suits, however, rayon and acetate fabrics accounted for 61 per cent of the 1952 total as compared to 42 per cent in 1950; fur trimmed coats made from rayon and acetate fabrics accounted for approximately 10 per cent in 1952 as compared with 3 per cent in 1950.

Shipments of women's, misses', and juniors' principal outerwear industries during 1952 aggregated 2.9 billion dollars, an increase of 6 per cent over the 1951 total of 2.7 billion dollars, according to the report.

The statistics for 1952 are based on a quarterly canvass of approximately 2,400 firms accounting for about 90% of the shipments of the women's principal outerwear industries, and an annual canvass of the remaining companies so classified.

*Facts for Industry Series M67H-02: Women's, Misses', and Juniors' Outerwear, 1952; prepared by Bureau of the Census, Industry Division.

were spent in preparing the dyehouse for the high temperature installation. All equipment with the exception of the drying chambers has been erected in concrete pits with drains connecting into local sewers. A good part of Ankokas' success in speeding up package dyeing operations stems from this sub-surface machine arrangement. It has eliminated wet, slippery floors which interfere with employee efficiency as well as constituting a menace to their health.

Venango's machinery is supplemented by a 240-tube high temperature Obermaier kier, an 80-tube high temperature Smith-Drum kier, and a 400-pound standard temperature Smith-Drum kier. These three units were part of Ankokas' original package dyeing facilities. Their carriers have been adapted to the port mountings on Venango's extractor and dryers. This equipment, together with Venango's, allows the dyehouse to exercise unusual economies in processing by making available a capacity and type kier "tailor-made" to suit each order.

Materials Handling. The uncrowded layout of this equipment plus the alignment and balanced work loads invited further cost savings through materials handling. All sections of the package dyeing installation are serviced by a 1½ ton capacity tramrail supplied by the Philadelphia Tramrail Co., and a 3 hp Yale lift.

Since fully loaded carriers rather than packages are transferred from kier to extractor to dryer, and the machines are organized in a straight line, the amount of time consumed for handling is practically canceled as a cost factor. Formerly, 40 minutes were wasted in unloading packages from the kier into the centrifuge, 60 minutes were wasted in loading packages into the tray dryer, and still another valuable 40 minutes were wasted in unloading the dryer. Now there is less than a five-minute pause between operations.

The shorter processing time and virtual elimination of physical contact with the yarn has enabled Ankokas to produce a more presentable, better winding package. Customers are happy because it saves them winding costs and wear and tear on their operators' hands. There no longer is any need for "pressing" packages, a job that once took nearly an hour.

Trained Personnel. New equipment alone does not guarantee a successful mill operation. The man at the machine must be considered also. The arrival of complex machines and even more complex blends has ended an era in the dyeing industry. The new one emerging calls for superior intellect to meet the technical challenge. Recognizing this, Ankokas began inventorying human skills. The supervisory staff boasts three graduates of Philadelphia Textile Institute, each of whom majored in chemistry and dyeing. Younger, better educated men were also hand-picked for the mill. As dyeing temperatures soared upwards, so did the mill's I.Q. requirements. With the right men and the right equipment, management feels that this dyehouse is now well able to face the severe test of technological advances in fibers and dyestuffs.

you can't beat

By William J. Crofts

EXCLUSIVE

BLENDING is a preparatory process of the utmost importance; and for uniform quality and evenness in woolen yarns, uniform blending is absolutely essential.

Woolen blends usually contain several types of fibers of varying lengths and two or more colors. The two objectives involved are to combine these miscellaneous fibers and colors into a uniformly mixed blend and distribute the emulsion evenly throughout the entire mix. Blotchy mixing of two or more colors will produce uneven shades in the yarns and fabric. Uneven blending of two or more types of fibers means unevenness in quality and strength and this latter factor, or an uneven distribution of the emulsion, will cause a wide fluctuation in the roving and yarn weights.

A blend of 100% worsted tops or lap waste (if all of one shade) is the easiest to make, requiring only the breaking up of the chunks and rolls of fiber. The fibers are of uniform length and are easily separated. At the other extreme would be a combination of long straight slippery fibers with the short re-worked stock, such as a blend of 35% mohair and 65% reworked stock. Such a blend requires careful handling, and to insure a compact blend where the short stock will not separate from the long and slippery mohair, it is advisable to fluff out the mohair with one run on the picker before laying down the blend.

One mill had the experience of running a standard blend composed of several types of stock on two or more cards with one lot giving excellent results in the roving weights. Then upon starting a new lot of the same blend, all cards started giving variable roving weights. There is only one conclusion for such a change in results; namely, an uneven blending of the various stocks or an uneven distribution of the emulsion. The emulsion is so much heavier than the stock, that any unevenness in the moisture content throughout a blend will cause a wide fluctuation in roving weights.

Blotchy blending of two or more types of stock is an even greater fault than unevenly applied moisture. The card feeder will deposit more of the longer stock in the sensitive scale pan at one weighing and a larger percentage of the shorter stock at the next weighing. The longer stock carries through the card with less loss in weight, and the weighing of shorter stock from the scale pan will show a greater shrinkage in the form of card waste, heavy dirt, etc., and hence very unsatisfactory results in the roving weights.

Laying Down Methods. The original method of laying down by hand the many stocks and colors layer on layer, much like a huge "Dagwood" sandwich, is in principle in use today and is the best practice for the assurance of uniform blending. Many thin layers will give the best results.

Another method of blending when hand feeding into the hopper is to arrange the stocks and colors in a semi-circle around the hopper and have the operators feed by guess work certain proportions of each of the stocks and colors into the hopper. In other words, the blend is laid down or blended in the hopper. This effects a saving in labor cost but is absolutely dependent on the experience and good judgment of the operators. The human element is not always so reliable as a machine and measured weighings of each stock.

Thin Layers Best. Just as a woolen card cannot satisfactorily assimilate and digest an unevenly mixed blend, neither can a blending picker transform a poor lay with thick layers of stock into an even blend. Making a few more extra layers consumes a little more time in the preparation but is almost equal to an extra run on the picker. Any processing of the stock exacts a toll of broken fibers, and less machine processing means preserving the length and strength of the fiber. Whether the blend is laid down on the floor to be picked up for hand feeding or laid out in the elongated hopper of a modern sandwich picker, the bottom layer should be of the longest and best stock.

An example of good blending is a 1000-pound Oxford mix composed of 12.5% white wool, 12.5% black wool, and 75% black re-worked stock. Here we have a blend of two colors and two types of stock. For best results the black and white wools should each be divided into three equal parts and the black re-works into six equal parts. The stock should be laid down as shown in box at the bottom of the next column.

This blend should be given two runs on the picker to guarantee

a good SANDWICH MIX

for uniform blending of wool.

Thin layers are a MUST

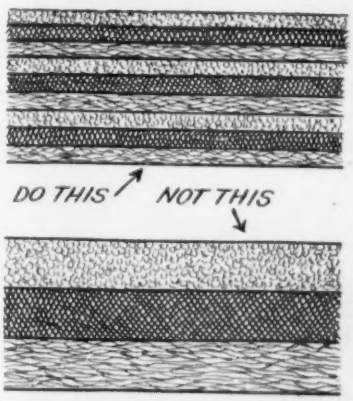
sufficient evenness of yarn shades and weights if all other factors involved are favorable. When a blend is laid down on the floor, ample floor space should be available to spread each layer very thin. For a mix of 1000 lb a floor area of 400 sq ft is about right. For larger mixes either more space should be available or more layers used, the important factor being that all layers should be spread out thinly.

When laying down any blend, and more specially a mixture of colors, great care must be taken when weighing the quotas of stocks and colors. Only accurate scales should be used, and these should be tested periodically. To assure accuracy the moisture content of the stocks should be checked to be sure a true shade is obtained when two or more colors are involved. The amounts of moisture contained in different lots of dyed stocks will vary greatly.

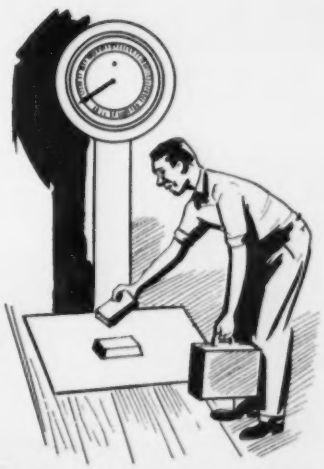
Applying Emulsion to Blends. Cotton and some types of rayon tend to form clots if emulsion is applied directly to these stocks. In order to get a lofty blend of either cotton or rayon, it is best to give the wool and wool stocks in the blend one run on the picker, applying all the emulsion, and then make a lay of alternate layers of

Good Way to Lay Down a 1000-lb. Oxford Mix

12	black re-works	125 lb	
11	white wool	41-2/3	lb
10	black re-works	125 lb	
9	black wool	41-2/3	lb
8	black re-works	125 lb	
7	white wool	41-2/3	lb
6	black re-works	125 lb	
5	black wool	41-2/3	lb
4	black re-works	125 lb	
3	white wool	41-2/3	lb
2	black re-works	125 lb	
1	black wool	41-2/3	lb
		1000 lb	total

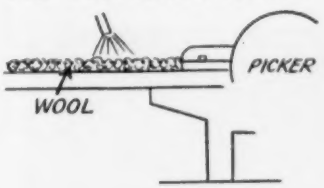


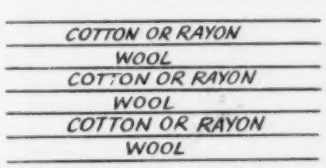
USE MANY THIN LAYERS for uniform blending to produce high quality yarns. Just as a woolen card cannot satisfactorily assimilate and digest an unevenly mixed blend, neither can a blending picker transform a poor lay with thick layers of stock into an even blend.



TEST SCALES PERIODICALLY so that components of blends will be weighed accurately.

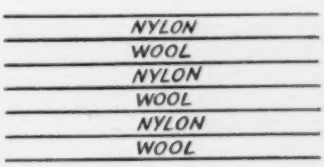
FOR WOOL-RAYON BLENDS

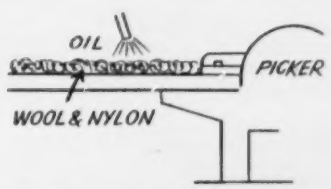




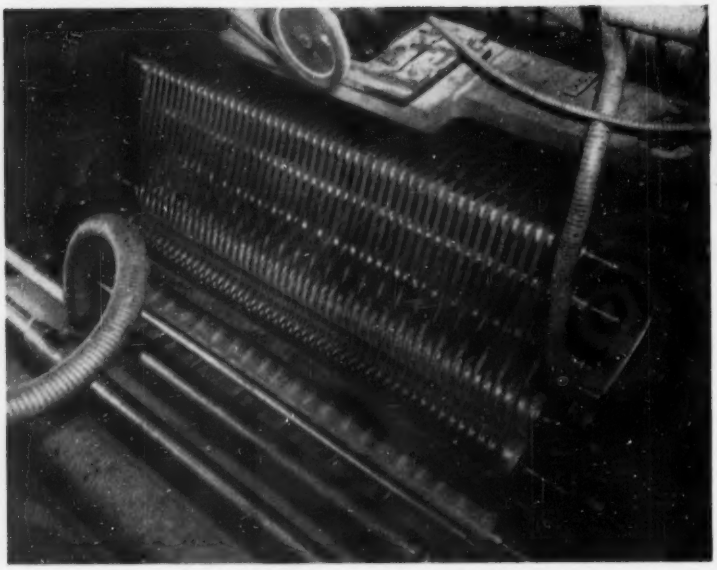
OIL WOOL; THEN BLEND cotton or rayon with wool stocks to prevent forming clots. Cotton and rayon will absorb enough moisture from the moistened wool stocks to simplify processing.

FOR WOOL-NYLON BLENDS





BLEND; THEN OIL when mixing nylon with wool. This can be done because nylon does not seem to absorb moisture; nor is it affected as much as far as strength and spinning qualities are concerned.



PUT ENOUGH OIL IN THE EMULSION to condition tapes and rub aprons and assure high operating efficiency.

CHECK MOISTURE CONTENT OF STOCKS frequently to obtain a true shade when two or more colors are involved. Dyed stocks vary greatly as to amount of moisture contained in different lots.

the wool and synthetics. The cotton or rayon will absorb enough moisture from the moistened wool stock. With this treatment the yarns will be smoother, loftier, and of the greatest potential strength.

Nylon does not absorb much moisture nor is it affected much as far as strength and spinning qualities are concerned. Nylon can be blended with other fibers before the emulsion is applied. Blends of 100% garnetted nylon can be processed in the dry state with good results if static is not present. Usually enough moisture must be added to control the static.

Purpose of Oil in Emulsion. The water and oil emulsion applied to woolen blends relaxes the fibers, and this permits slack drafting at the card condenser, which in turn improves drafting in the spinning process. Moisture helps to set the twist in the yarn, thereby developing the full strength of the yarn. This aids in card condensing and combats static.

The primary benefit of the oil is to lubricate the fiber. The oil also lubricates the points of the card wire. The fibers slip off the points more easily and with less friction, and there is less wear on the points, which means less grinding and also less stripping, provided the oil does not form a gummy film on the wire.

Sufficient oil in the emulsion conditions the leather tapes and rub aprons, maintaining these at a high operating efficiency. Rubber aprons seem to stay in condition with smaller percentages of oil in the emulsion.

Rich Emulsion. In making high grade fabrics from blends of virgin wool and on some blends containing a percentage of re-worked stocks, for each 100 pounds of

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GIANT MIXING HOPPERS like these in a large southern woolen mill permit 10,000 pounds of stock to be oiled and blended prior to entering the first picker. A fan draws stock through a pipe which runs to the second hopper (also 10,000 lb capacity) where a belt conveyor distributes the stock evenly into the second hopper for better blending prior to delivering the stock to the second picker.

stock, 16 quarts of emulsion (consisting of 3 quarts No. 1 lard oil, 3 quarts red oil, and 10 quarts water) may be applied satisfactorily. On a percentage basis this would amount to 6% lard oil, 6% red oil, and 20% water. In one mill, this rich emulsion developed the full strength of the yarns, kept the leather tapes and aprons in excellent condition at all times without any application of apron oil, and because of the low evaporation rate of the emulsion, the roving and yarns were even in weight. Runs of six to eight thousand pounds of stock were made between strippings. Leather tapes and aprons gave long service, and owing to the excellent lubrication of card wire by this oily emulsion, very little grinding was necessary.

Benefits. The management in this mill insisted that the use of a rich emulsion imparted a better feel or hand to the finished fabric, and it is perhaps true that a film of rich oil on the wool fiber protects the fabric from any harsh action of the soap in the washing process. A good oil blends readily with and aids the action of the soap, less soap is needed, and a milder soap can be used. However, many otherwise good wools are permanently damaged and rendered harsh and brittle in the scouring process, and no amount of wool oil in the emulsion will restore such wools to their original soft feel.

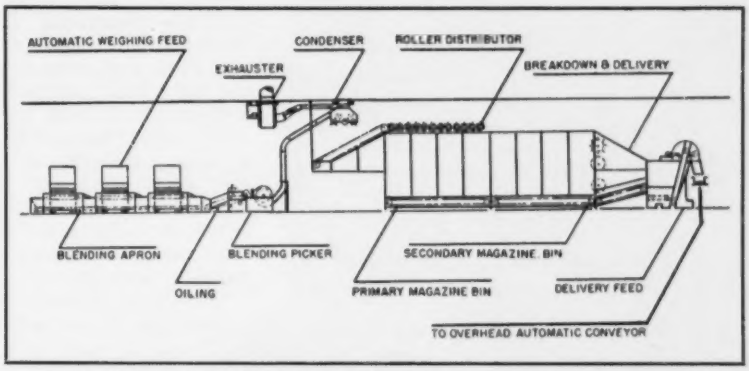
Thin Emulsion. In many mills low costs and high production are the first considerations, and a thin emulsion of 3% oil, 28% water by weight is used. Rubber aprons seem to maintain a high condensing efficiency with this emulsion but the leather tapes require frequent oiling for best results. With the smaller amount of oil there is increased friction on the card wire, especially at the point where fancy contacts the cylinder. This produces faster wear on the points of the cylinder and fancy wire.

Amount of Emulsion. No arbitrary figure can be given for the correct amount of emulsion to apply for best results. For medium to coarse wools and wool stocks, 25 to 30% by weight will give excellent results. Fine stock will absorb and retain more moisture, and as much as 45% by weight often is necessary on finer yarns to firmly set the twist and give the greatest yarn strength. This produces a more compact thread. If a full lofty knitting yarn is desired, then less emulsion should be used.

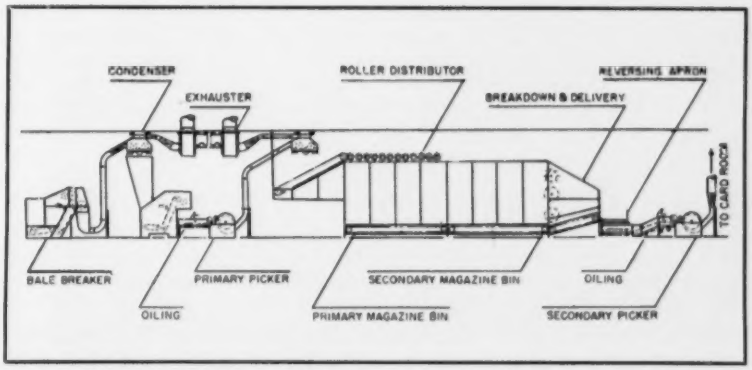
Since wool is an animal fiber, as are the tapes and leather aprons, an animal oil is best for woolen blends. However, these oils are high in price, and vegetable or mineral oils or blends of oils are most extensively used. An oil that has a small gummy wax content, emulsifies easily and completely without separating from the water, and blends quickly with the soap in the finishing process is the most desirable. Most of the wool oils on

Illustrating Moisture Shrinkage from Storage Bin to Card Spool

O. D. Blend, 3-Run 100% 58's Wool 45% emulsion applied at the picker in the storage bin			Lofty Blend Mohair and Re-Worke 2-Run 25% emulsion by wt applied at the picker in the storage bin		
1st test	2nd test	3rd test	1st test	2nd test	3rd test
40%	41%	41%	19%	20%	20%
	In the card feeder			In the card feeder	
32%	33%	31.5%	14%	16%	15%
	broad band feed			broad band feed	
25%	24%	25%	13%	13%	12%
	roving			roving	
21%	20%	21%	11%	10.5%	10%
Room Humidity - 70%			Room Humidity - 70%		
Total Moisture Loss		53 1/3%	Total Moisture Loss		56%



CONTINUOUS BLENDING SYSTEM for large batches. Component fibers, after entering the automatic feeders, progress completely automatic in all subsequent operations to the point of doffing at cards. Designed by Proctor & Schwartz.



BATCH BLENDING SYSTEM for small quantities of material, designed by Proctor & Schwartz.

70% Larger Textile Industry by 1975

The textile industry will be at least 70 per cent larger in 1975 than it is today, notwithstanding talk of current overproduction, Willard C. Wheeler, marketing and business economics consultant for Anderson & Cairns, Inc., advertising agency, recently set forth in a detailed report on the textile industry. The extensive research reviews in detail the pricing trends of various textile fibers and plots a trend for the next 20 years.

"Only prophets of doom believe that America has come to the end of its dynamic growth," Mr. Wheeler commented. "The fact is our economy is expanding at an accelerating rate. The growth rate has now increased to 3.3 per cent per year. If it continues to increase only at the present rate with no further acceleration, it will be a little over twice as large as today in 1975."

"If the textile industry is to maintain its position in the total economy, it would have to be twice its present rate in 1975," he said, adding, "The projections presented conservatively contemplate an increase of about 71 per cent."

In summarizing reachable potentials, Mr. Wheeler forecast that textile fiber consumption should rise from 6½ billion pound base in 1952 to one of at least 11 billion pounds by the three-quarter mark of this century.

Cotton and the newer man-made fibers are particularly significant in this projection. Although cotton will show the smallest rise, about 23 per cent, this fiber will still be consumed at a rate of more than twice any of the other categories. The newer man-made fibers are expected to make the most significant gain, moving from 260 million pounds in 1952 to about 2 billion pounds by 1975.

Cotton Growers, Mills Share Stake

The rise of production efficiency in some other parts of the world, without any appreciable narrowing of the "fantastic" U. S.-foreign wage gap, poses a growing threat to the entire U. S. cotton economy, according to J. Craig Smith of ACMI. Citing sharp declines in overseas shipments of U. S. raw cotton and cotton goods, Mr. Smith said the cotton farmer and the cotton manufacturer "are faced with pretty much the same basic situation."

"American efficiency is becoming less of an off-setting factor against the low wage costs of foreign countries as those countries increase their own efficiency by more modern methods while there is no corresponding change in the wage gap."

"Just as the rebuilt textile industries of Japan and Germany are modern by any standard, so is the introduction of improved cotton varieties and modern methods, even irrigation, in India and other countries filled with vast potential," he said.

Guide to More Efficient Bale Handling

Inefficiencies in handling baled cotton at warehouses and compresses are still widespread, despite increased use within the last few years of new types of mechanical equipment and of improved or more efficient methods discovered or developed. This is the conclusion recently reached by members of the Department of Agriculture after studying handling operations at many compresses and warehouses throughout the Cotton Belt.

It was found that most in-

the market today contain the correct emulsifying agent and need only to be mixed with water to make the emulsion.

The table (top of page 171) gives an indication of the moisture shrinkage from the storage bin to the roving on the spool.

Moist stock in storage bins generates considerable heat after long storage, a chemical reaction detrimental to the fiber strength. The stock should be kept moving as rapidly as possible and plenty of room humidity provided to check evaporation of the moisture in the stock. Bins should be lined with metal for ease of cleaning and conservation of the moisture. Bins should be sealed tightly, except for the screened opening, to allow an escape for the draft of air from the blower fan.

The single-cylinder, single-action picker is the type most generally used. This machine has a more gentle action than the Fearnaught. While the latter does a more thorough breaking and blending of the stock, its action tends to roll the stock—especially blends of fine, short fibers.

The modern sandwich picker with its twin elongated hoppers and twin pickers is a decided step forward in labor saving and an improvement in blending if a few simple rules are observed. The blends should be laid down in the long hopper in thin layers and each layer evenly distributed over the length of the hopper to get best results.

Auxiliary Equipment. An auxiliary picker placed at the middle of and at right angles to the first of the twin hoppers should be a great labor saver and do a better job of laying down the blends. As the stock left the picker it would be blown through a goose neck shaped pipe ascending high above the long sandwich hopper. The descending section of pipe would simulate a pendulum and swing back and forth like the pendulum of a clock over a long hopper, thereby distributing each layer of stock evenly over the entire length

efficiencies result from one or more of these reasons:

(1) Failure to use suitable powered handling equipment in place of manual labor;

(2) Failure to make proper and effective use of such equipment when it is employed; and

(3) Failure to make effective use of the manual labor employed.

They probably could be reduced or eliminated, the observers reported, if warehouse managers, superintendents, foremen, or others responsible for handling operations were shown how to analyze their own operations systematically to find and remove the causes of inefficiencies. Through the same kind of analysis, new or improved handling methods could often be developed by the warehousemen themselves.

To outline a few suggestions as to how more efficient methods of handling cotton may be devised or discovered, and to list and briefly discuss some broad principles of materials handling, which, when applied to the warehousing of cotton, should result in increasing handling efficiency and reducing handling costs, a 78-page report* has been published, based on the findings of this research.

*"Cotton Handling Guide for Warehouse Managers and Foremen," Marketing Research Report No. 50. For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Price, 40 cents.

of the hopper. A heavy-duty picker feed might serve just as well as an an opener and distributor of the stock and with a gentler action. A spray oiler attached to the table feed would be an advantage when laying down cotton or rayon blends. Such an auxiliary, by insuring an even distribution of the lay, would almost equal one run of the stock on one of the pickers.

The customer demands uniformity in quality, weight, and shade of fabrics. To get this ideal result it is imperative that in blending—this initial step in the making of woolen yarns—all details should be closely supervised and uniformity should be the watchword.

KNITTER HINTS No. 39

EXCLUSIVE

Don't smile when you do this.

You are not carrying a sack of potatoes.

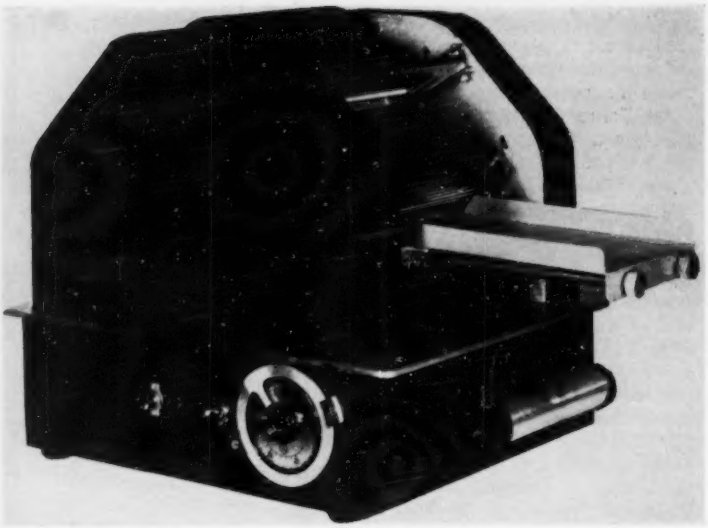
This is ALL wrong.

Cotton Research Clinic

NOW firmly established as one of the cotton industry's foremost technical meetings, the Fifth Cotton Research Clinic, sponsored by the National Cotton Council of America, convened at the Carolina Hotel, Pinehurst, N. C., on February 17, for three days' discussion of cotton's problems.

About 200 mill men, research scientists, and textile machinery manufacturers attending the six sessions of the Clinic heard 24 technical papers on a wide range of topics ranging from tar spots and neps to manufacturing practices in the Orient.

Eleven of the papers presented are abstracted on this and the following eight pages of editorial matter.



THE NEPOTOMETER, an instrument for predicting the tendency of cotton to form neps.

Measure nep potential of

By John F. Bogdan
School of Textiles, N. C. State College

Abstract

THE advantages to all segments of the cotton industry—producers, breeders, merchants, and spinners—of a quick, reliable method for predicting the tendency of various cottons to form neps are obvious. Accordingly, the U. S. Department of Agriculture, under the provisions of the Research and Marketing Act, contracted with N. C. State College for the development of such a method.

The result is the "Nepotometer," an instrument designed to give a standardized amount of mechanical treatment to a sample of cotton, producing a quantity of neps which will correlate with the number made in mill processing of the same cotton.

The Nepotometer. The instrument, shown on this page, is designed on the principle of repetitive mechanical action on the same cotton fibers, in accordance with the well-known fact that reprocessing causes a rapid increase in nep content of cotton. It also incorporates the carding and stripping actions of a full-scale cotton card.

Basically, the Nepotometer consists of a feeding arrangement, three rolls covered with metallic card clothing to manipulate the cotton, a presser plate to prevent plucking at one of the fiber transfer points, a pre-set timer to insure a standard degree of manipulation, a means of transferring a sample of the web for inspection, and the necessary means of actuation in the working direction, and in reverse for the purpose of clearing the instrument after the test is

Carding with metallic

METALLIC clothing for cotton cards has passed the experimental stage and competes in both cost and quality with fillet clothing was the theme of papers by John W. Powischill, Proctor & Schwartz, Inc., and Robert C. Ashworth, Jr., Ashworth Bros., Inc.

Both speakers cited as advantages of metallic wire an increase in production rates, virtual elimination of stripping and grinding, less waste, and improved sliver uniformity.

Mr. Powischill recognized as possible disadvantages of metallic wire the additional weight added to the card, the fact that proper

completed.

Operation. An accurately weighed 25-grain sample, representative of the bale of cotton to be evaluated, is carded between a pair of hand cards into a 5″ x 5″ pad. This is fed to the machine and worked for four minutes.

The technique of operation is shown in the accompanying photographs.

The appearance of the sample web is compared for neppiness against a set of four standard photographs of webs which show a range of neppiness from very low to very high. The average weight per unit area is approximately the same as that for a card web weighing 50 grains per linear yard.

Evaluation. The instrument is

cotton

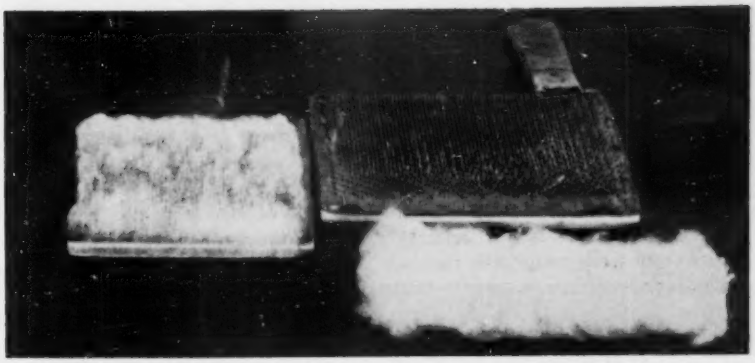
not designed to give an exact measure of the number of neps to be expected in processing a lot of cotton, but rather to place it in one of the four categories mentioned.

Good agreement has been found between the predictions of the Nepotometer and the nep counts from actual spinning tests on a wide range of cottons.

clothing

maintenance is more critical than for fillet-clothed cards, and that damaged wire is more difficult to replace than is conventional clothing.

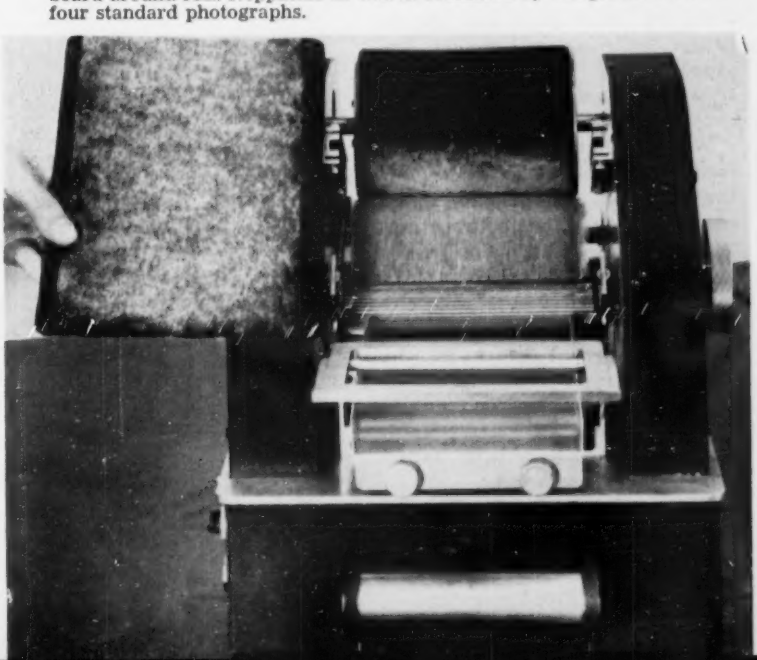
The added weight of about 500 pounds which results when a card is clothed with metallic wire is due to the fact that the cylinder and



SAMPLE weighing 25 grains is carded between pair of hand cards into a 5″ x 5″ pad.

PAD is placed on the feed table and tucked under the feed roll. Machine stops automatically after 4 minutes.

WEB is removed from top roll by rotating black velveteen-covered board around roll. Neppiness of web is evaluated by comparison with four standard photographs.



doffer diameters must be built up about ½" with base wire before the metallic clothing is applied. This adds about five lb per sq ft to the floor load, which could be eliminated if the cylinder and doffer were originally made ½" larger in diameter.

On the question of proper maintenance, Mr. Powischill and Mr. Ashworth were emphatic that an installation of one or two metallic wire-equipped cards in a room full of fillet-clothed cards is almost inevitably doomed to failure. Metallic-clothed cards require a different technique of gauging, run at a different rate of production, and have completely different requirements for grinding and stripping. Card room personnel are unlikely to give special attention to an isolated card.

This observation was confirmed by an overseas visitor to the Clinic, whose mill is completely equipped with metallic-clothed cards. The introduction of metallic wire does not complicate card room operations, but a sizable installation is a must (Mr. Ashworth recommends a minimum of 8 or 10 cards).

A former employee of Botany Mills recalled that Botany equipped five worsted cards with metallic wire in 1933. Segregation of the cards and their operation by special personnel greatly improved results.

(Editor's Note: TEXTILE INDUSTRIES has published several articles on metallic clothing within the past year. See Jan. 1953, p. 81; Feb. 1953, p. 124; June 1953, p. 189; Jan. 1954, p. 90.)

Air bridge is heart of new feeder

By Howard H. Langdon
Curlator Corp.

Abstract

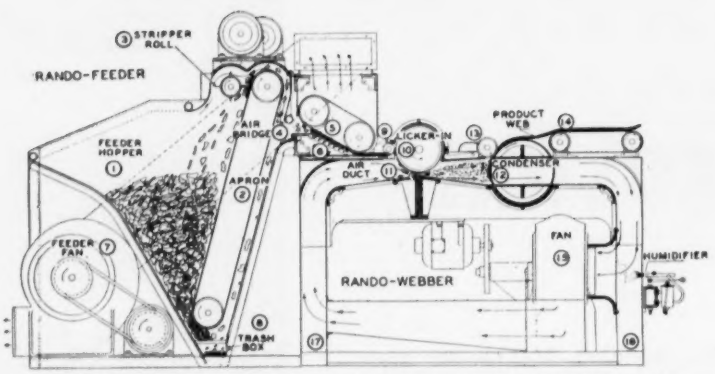
THE Rando-Feeder is a device originally designed to overcome the widthwise non-uniformity of the picker laps formerly used to feed a machine for the production of random oriented webs for non-woven fabrics. The Rando-Feeder may have a broader field of use in the textile industry.

The operating principle of the Rando-Feeder is shown in the accompanying illustrations. In this case the feeder is coupled in tandem with the Rando-Webber.

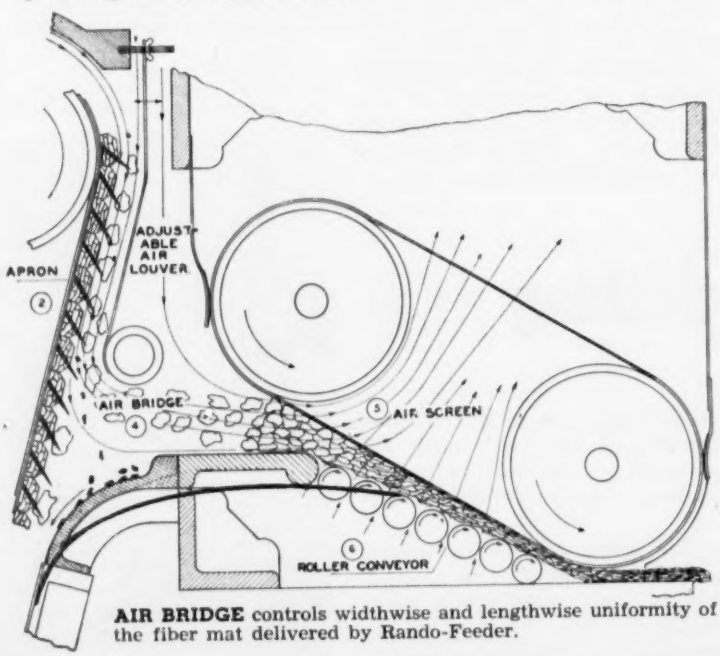
The hopper, elevating apron, and stripper are more or less conventional. The tufts of cotton coming from the apron pack into the air bridge under suction pressure, provided by fan 7, and are carried forward between a screen belt and conveyor rolls.

Widthwise and longitudinal uniformity are established in the air bridge, which is the heart of the feeder. Measurement of fiber output is done on a volumetric basis by the air bridge, where individual tufts are packed in under steady flow conditions. If a weak packing of fibers should occur in the throat of the air bridge, air flow is established at that point and tufts are immediately pulled into the weak spot to build it up, assuring widthwise uniformity.

Fiber output is controlled by varying either the fan rpm or the



RANDO-FEEDER coupled in tandem with the Rando-Webber, for producing random oriented webs.



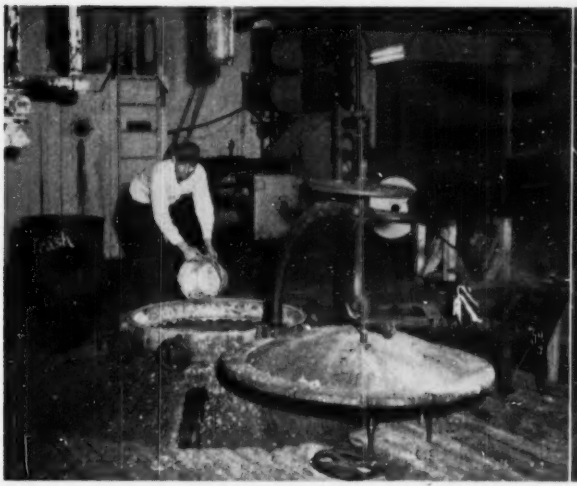
AIR BRIDGE controls widthwise and lengthwise uniformity of the fiber mat delivered by Rando-Feeder.

surface speed of the screen in the screen box.

Cleaning is accomplished by the difference in buoyancy between fibers and trash, only the fibers being carried by the air stream into the air bridge.

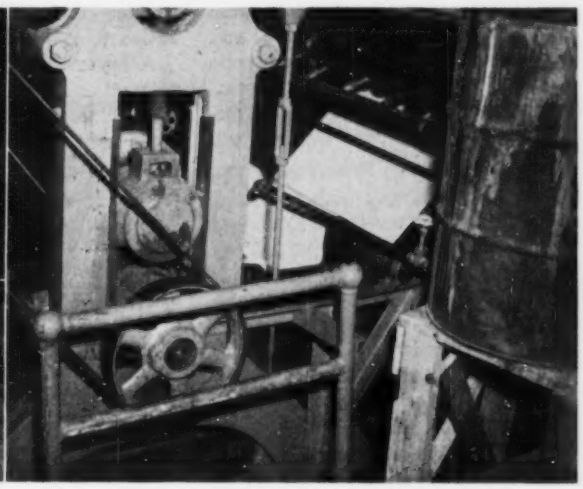
The air bridge and screen box have been in use since 1949 and have successfully handled a wide variety of fibers from ⅛" to 2" staple, including cotton, wool, synthetics, asbestos, glass, redwood bark, Spanish moss, and carpet clippings.

The Rando-Feeder presents to textile mills a new and unique method for the formation and delivery of fiber mats of high uniformity both longitudinally and width-wise.



Rock Hill Printing & Finishing Co.

TAR SPOT REMOVAL AT PRESSURE KIER. Sulfonated oil-xylene (9:25) mixture is added to pressure kier containing 1% caustic and cotton fabric. Chemical cost is less than 2 mils per yard of 4-ounce fabric.



North Carolina Finishing Co.

AT QUENCH BOX. Continuous addition of pine oil-kerosene (1:9) mixture to the quench box containing 0.5% caustic heated to 150-160 F while fabric is passing through at the rate of 150-200 ypm.

Remove tar spots from cotton fabrics

By Jack Compton and Leo R. Hubbard
Institute of Textile Technology

Abstract

TAR and asphalt contamination of finished cotton fabrics has plagued the industry for years (see TEXTILE INDUSTRIES, March 1952, pp. 132-138, for a complete report on the problem).

Two approaches to the elimination of tar spots have been made at I.T.T.: to remove the source or sources, and to perfect economic methods for their removal from cotton fabrics. The latter objective has been attained.

Spotting Techniques. This procedure is more expensive than removal during finishing, but often must be used to prevent excessive fabric grading losses.

The methods applicable are:

1. Steam spotting—application of a tar solvent followed by steaming.

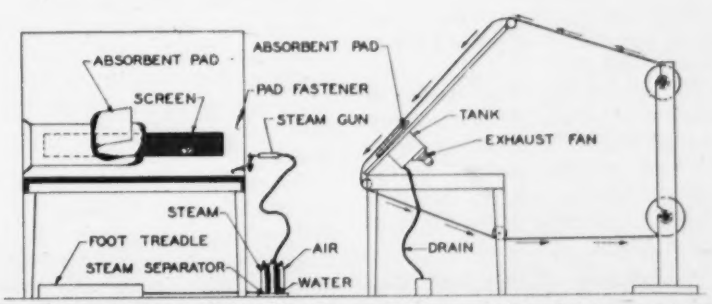
2. Water spotting—application of a tar solvent followed by water. Application to fabric placed over an absorbent pad.

3. Dry solvent spotting—application of a tar solvent followed by application of a second miscible organic solvent to the fabric placed over an absorbent pad.

An effective tar solvent formulation consists of:

4 parts Monopole oil
1 part isopropyl alcohol
95 parts tetrachloroethane by volume

A solution of one part Monopole



CLOTH INSPECTION table for removal of tar, oil, and grease spots.

oil and nine parts tetrachloroethane by volume has also been found satisfactory in certain cases. On cellulose acetate and cellulose acetate-cotton blends, xylene should be substituted for tetrachloroethane. Commercial tar spot removers are also available.

Removal of Tar Spots During the Finishing Operation

Tar spots may be removed from bleached fabric by padding on the entire fabric an emulsion containing a large proportion of organic solvents, giving a rest period, and then washing in a slack rope washer with soap and hot water. This procedure is effective but expensive, costing about 1½¢ per yd.

Pressure Kier Procedure. The kier is first charged with four tons of cloth, and after the addition of the caustic a mixture of 18 gallons of sulfonated oil and 50 gallons of xylene is poured on top of the charged load.

Circulation is started, the kier closed, and the pressure raised in the usual manner. The relief valve in the lid of the kier should be closed as much as possible to prevent loss of xylene, yet open enough to allow excess air to escape.

At completion of the pressure boil, a light wash with warm water is given. If a cold water wash is used, followed by bleaching, 85% of the tar spots will be removed. If a hot wash (140 - 160 F) is given, close to 95% removal will be realized.

Because of the use of an organic solvent, xylene, it is essential that the kier pump and lines be thoroughly cleaned before starting the run. If the circulating pump is packed with graphite, the packing should be replaced with a caustic- and solvent-resistant packing. Otherwise, the graphite may be loosened and deposited on the cloth in the kier.

The chemical cost of the sulfonated oil-xylene pressure kier process is less than 2 mils per yard of 4-ounce fabric.

An equally effective formulation consists of about 7% pine oil-sulfonated oil (75%)(1:1)-xylene (9:25) mixture on the weight of the goods. Chemical cost in this case is about 1½ mils per yard of 4-ounce fabric.

Quench-Box (Continuous) Procedure. The quench box of the singer is filled to normal running level with 0.5% caustic soda heated to 150 - 160 F. No soap or other surface active agent should be added to the caustic.

A layer of a mixture of 1 part pine oil and 9 parts kerosene, about ½-inch thick, is then run onto the surface of the hot quench liquor.

The singer is started and the pine oil-kerosene mixture metered by a valve into the quench liquor at the rate of about 7 gallons per 1,000 pounds of fabric. On 80 x 80 print cloth this is equivalent to 1.7 gallons per 1,000 yards. The caustic level is maintained in the usual way.

In large scale tests, an open end 55-gallon drum was fitted with a valve and pipe line so that the pine oil-kerosene mixture could be continuously added. Permanently mounted tanks and metering pumps would be added when the process is adopted by a finishing plant.

A normal nip roll pressure is used, with a pickup of 60%-70% of the treating liquor.

The treated fabric is run into a gray bin, allowed to rest for four hours, and given a continuous hot water (160-180 F) wash. Conventional finishing procedures are then followed.

By this method at least 95% of tar spots can be removed from print cloth, with the probability that 100% could be removed if a soap wash were used instead of a hot water wash.

The chemicals cost, including caustic, is 0.427 mils per yard for 80 x 80 print cloth.

Cost Factors. Both kier and quench box procedures, using hot water washes, are effective in removing warp sizing, as well as tar and asphalt. Fabrics from the quench box runs were as efficiently desized as a control fabric treated with enzymes.

Enzyme desizing costs 0.307 mils per yard, so, if this process could be eliminated, tar spot removal by the quench box procedure would be about 0.1 mil per yard for 80 x 80 print cloth.

Preliminary findings indicate that the amount of pine oil and kerosene used in the quench can be decreased about one-third, and still be effective in tar spot removal. If this is found to be true in the mill, and the desizing effect remains, tar spot removal can be accomplished at no additional cost where a hot water wash can be given after the gray bin rest period.

A new development in card fillet

By Tom Pogson
English Card Clothing Co., Ltd.

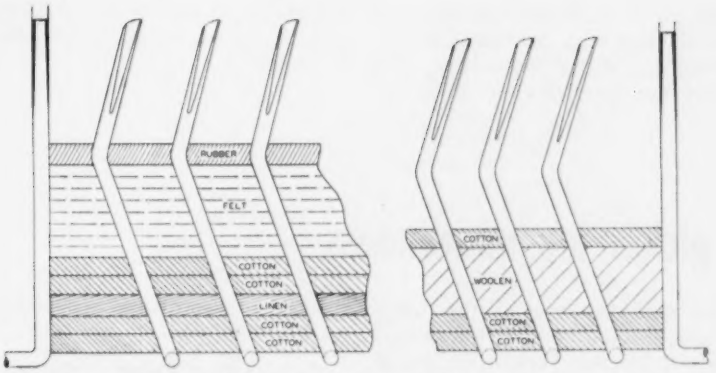
Abstract

AN IDEAL card clothing would eliminate stripping and grinding, increase production, and maintain or improve quality. Since any means yet developed for fulfilling the first three conditions has an adverse effect on the fourth, a balance or compromise must be struck.

The new card fillet developed by the English Card Clothing Co. is designed on the premise that a flexible wire tooth in a semi-flexible foundation is the only means of compromise while retaining the best carding qualities.

A new technique was adopted in the pattern of the clothing, knowing that 80% of the cylinder strip in normal clothing lies in the lanes between the rows of wire, and that the long fiber in the strip is all in this position. The new pattern is devoid of lanes or channels so far as is practical, so that a tooth is presented to every point of contact with the licker-in.

Under average conditions of carding, grinding lightly for about one hour with a good abrasive once every 1,000 hours is sufficient to maintain maximum carding efficiency. We recommend Behr-



CROSS SECTION of Type 8A cylinder clothing, left; Type 9A doffer clothing, right.

Manning's aluminum oxide 30s grit, or Dronsfield's Aitox. Indiscriminate grinding and setting will nullify the advantages this clothing offers.

Stripping is required about once every 48 hours for cotton under average conditions, and 120 to 500 hours for synthetics.

The carding efficiency of this clothing is equal to that of normal clothing, remembering that normal strips go into the web. The pre- and post-stripping variation of the sliver is of course considerably reduced, and is well within the normal variation of the lap.

Production is increased according to the reduction in time down for stripping and grinding.

Improvements in Card Operation

By Hugh M. Brown and John L. Thompson
School of Textiles, Clemson College

Abstract

FOR the past few months a study has been under way at Clemson School of Textiles to determine the effect on carding of reversing the direction of motion of the flats, and of decreasing flat speeds.

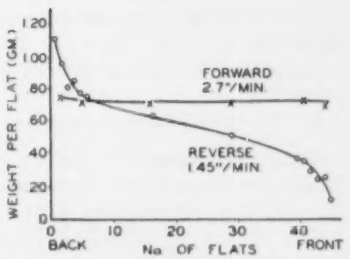
It seemed fairly obvious that the loading of the flats while in contact with the cylinder would be quite different when run opposite to the usual direction, and that the type of material brought out on the flats should be different.

Preliminary work indicates that a definite reduction in neps may be obtained by reversing the direction of motion of the flats. There is an increased reduction in neps and a reduction in flat strips with decreased flat speeds when the flats are run in either direction.

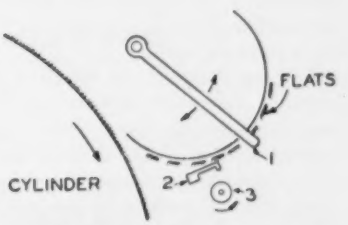
The effects of reversed motion and decreased speeds are given in the accompanying table.

Methods. The flats are run backward simply by uncrossing the belt that drives them, and several flat speeds are obtained by using different sized pulleys.

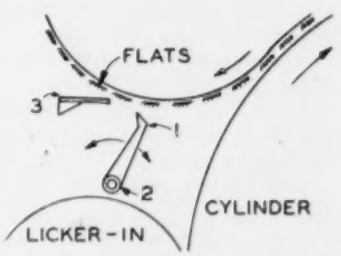
Stripping the flats, however, presents a different problem. One solution is a modification of the present stripper so that it will strip the flats when running in the opposite direction. The strip is gathered on the scavenger roll as at present, and the method in-



PROGRESSIVE loading of card flats at 7.5 lb/hr.



MODIFICATION of flat stripper. Stripper comb (1) is given a longer stroke by enlarging cam. At bottom of stroke, stripping is carried past blade (2) and caught between it and scavenger roll (3) which is positively driven by a ratchet and pawl.



STRIPPER at rear of card drops strips onto ingoing lap. Stripper comb (1) is pivoted on a shaft (2) so that it may be rocked back and forth past the flats and scavenger comb (3).

TABLE I

Effect of flat speeds and reversing motion of flats. Forward speed of 4"/min. is taken as 100%

Approx. Prod. Lb/Hr.	Flat Speed In/Min.	Neps Per 100 Sq. In.		Trash In Sliver		Per Cent Flat Strip		Per Cent Cylinder Strip		Per Cent Total Waste		Number of Runs	
		F	R	F	R	F	R	F	R	F	R	F	R
6	1.44	69	70	102	103	61	68	113	85	89	93	1	1
	1.90	93	78	93	103	67	81	106	90	100	94	1	
	4.00	100	84	100	97	100	115	100	75	100	110	7	4
	6.62	132	97	83	84	130	165	111	89	125	110	1	1
	24.		117		75		480		80		248		2
8	4	100	88	100	96	100	130	100	75	100	104	1	1
10	4	100	84	100	71	100	129	100	83	100	107	1	1
14	4	100	103	100	97	100	120	100	84	100	102	3	3

volves nothing different in the operator's job.

A second method of stripping the flats is to place the stripper at the rear of the card and to drop the strips back onto the ingoing lap. There is a slight increase in neps when the flat strips are fed back, but the nep count is still reduced from that made when the flats are run forward.

Causes and effects of picker lap unevenness

By M. Earl Heard, Jr.
Tritex Corp.

Abstract

IN OUR studies of pickers we have come to the conclusion that there are five factors which are important in a picker lap:

1. Total lap weight variation
2. Yard-to-yard variation
3. Short-term or within-yard variation
4. Lateral or selvage-to-selvage variation
5. The construction factor

Total Lap Weight Variation. An insufficient number of hoppers or blending feeders together with improper feeding of these machines is a common cause of lap weight variation. Good practice recommends a minimum of two, and preferably three, blending feeders per picker, and these should be fed on a patrol cycle.

Uneven feed to the hoppers results in stock of varying density passing through the picker. The evener motion of the picker, since it is a device for measuring thickness, cannot completely compensate for variations in density.

Adjustment of the evener motion from lap to lap actually results in an increase in rejected laps.

Yard-to-Yard Unevenness. The causes of yard-to-yard unevenness in the lap are:

1. Poor condition of the evener motion.
2. Improper sensitivity adjustment of the evener motion.
3. Improper setting of the rake for level control on pickers with blending reserves.
4. Improper high speed—low speed feed to the blending reserve.
5. Improper feed to the picker itself on pickers without blending reserves.

The evener motion is a crude mechanism, requiring the best of care. Measuring shoes should be kept clean and free on their fulcrums, and the cone belt kept clean and at proper tension to avoid slippage.

Within-Yard Variation. Control of short-term lap variation is accomplished by the Tritex picker modification, through redesign of the portion of the picker between the beater and the screen, installation of an air intake duct, and replacement of the Kirschner beater with a cylindrical beater, all on the finisher section of the picker (see TI, Feb. 1954, p. 106).

Construction Factor. This is a combination of openness of the fibers, cleanliness of the stock, and the way the fibers are formed on the screen section.

A lap should be as light and fluffy as possible, limited only by two factors: it must not split on the card, and it must be possible to handle it without creating excessive waste.

Determining nep content of ginned lint

By Joseph T. Rouse
Agricultural Marketing Service, U.S.D.A.

Abstract

THE method developed by the Cotton Division of the Agricultural Marketing Service for making nep evaluations of raw cotton is based on the mechanical fiber blender (see TEXTILE INDUSTRIES, March 1952, pp. 123-124) and accessory equipment.

Equipment. The mechanical fiber blender consists essentially of a feed mechanism and a blending cylinder, shown diagramatically in the accompanying sketch.

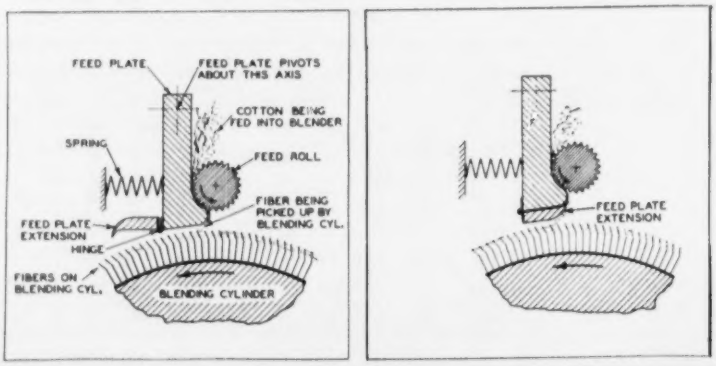
The accessory equipment is comprised of feed, carding, and doffing mechanisms.

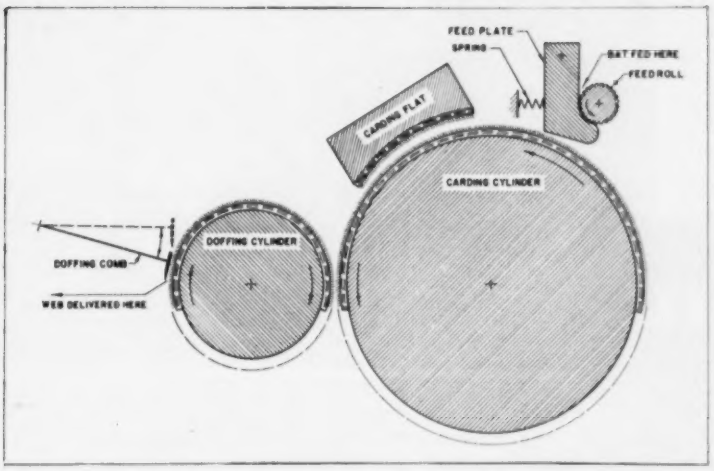
Procedure. To make a nep evaluation test, the sample is first conditioned for at least four hours in standard atmospheric conditions (70 F, 65% RH).

A representative 3-gram sample is prepared by taking small pinches of fibers at random from a number of places in the sample.

The sample is blended three times on the mechanical blender,

MECHANICAL FIBER BLENDER: set for short staple cotton, left; set for long staple cotton, right.





ACCESSORY EQUIPMENT for making nep tests with mechanical fiber blender.

and then processed on the accessory equipment into 10 - 4″ x 9″ specimens of web.

The neps in each of the specimens are counted by two technicians, and the neps per 100 square inches calculated from the average count of the two technicians.

An average of four samples per hour can be tested.

Evaluation of Method. Nep evaluations were made of 498 short, medium, and long staple upland cottons, for which spinning test results were available.

Results of simple correlation analyses for these three groups of cottons indicate that ginned lint evaluation of neps by this method explains more of the variance in carded yarn appearance than spinning test evaluation of neps in card web.

Retracto-Pin continuous card stripper

By Ralph A. Rusca and George A. Pettit
Southern Regional Research Laboratory

Abstract

IN CONNECTION with research at the Southern Regional Research Laboratory on processing chemically treated cottons, it was found that the card loaded so heavily that some out-of-the-ordinary method of stripping was required. The Retracto-Pin stripper was developed and proved successful for this purpose. The stripper also has promise as a practical device to aid the processing of raw cotton.

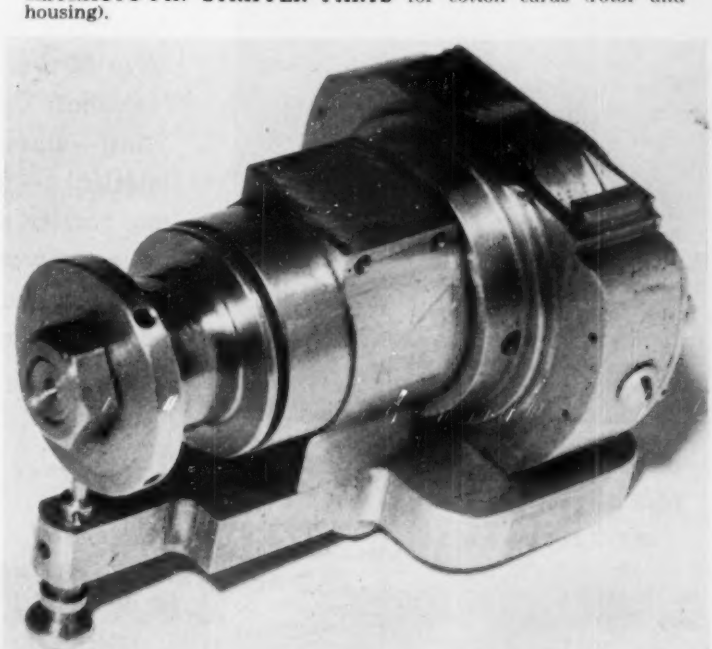
Apparatus. The Retracto-Pin stripper is a small rotor that traverses and strips the card cylinder through a slot in the back plate. A number of small diameter pins or wires on the rotor remove the impacted cotton from the card clothing, and a combination of mechanical forces and self-generated air currents return these strips to the surface of the cylinder.

The rotor is driven directly from the card by means of spinning frame tapes, and the slot in the back plate is sealed by a sliding metal strip.

The needles penetrate about 1/32″ below the knee of the wire, but appear to have no visible effect on the clothing.

The needles now in use last from two to three weeks. However, no

RETRACTO-PIN STRIPPER PARTS for cotton cards (rotor and housing).



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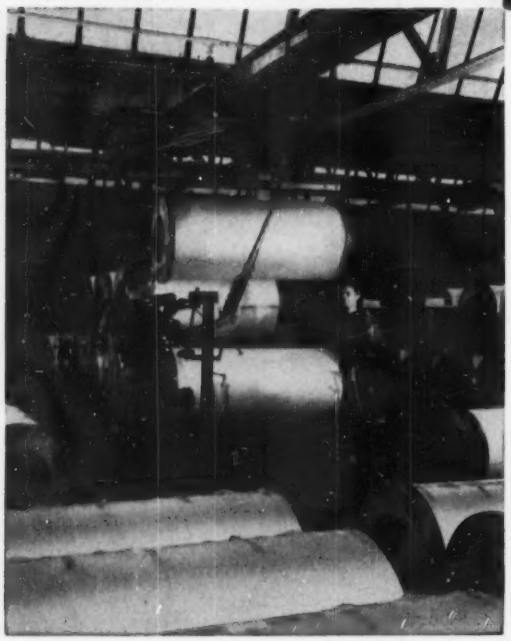

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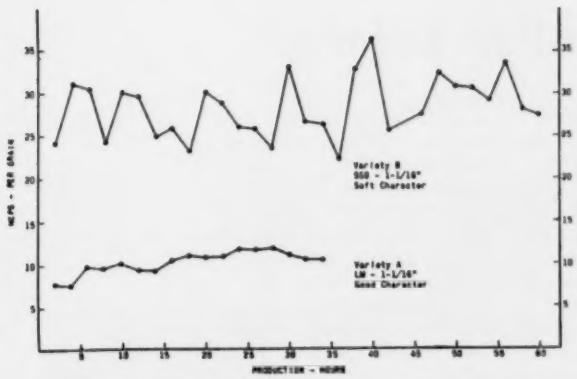
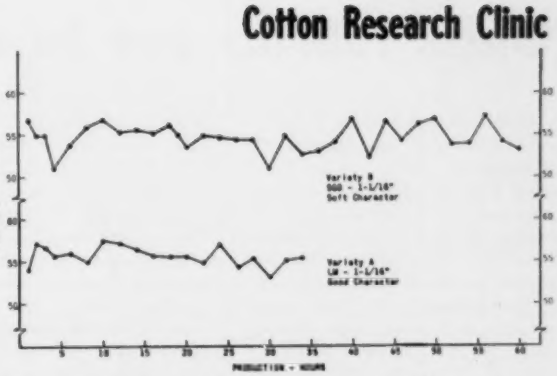


NEPS IN WEB produced by card with Retracto-Pin stripper attachment.



WEIGHT OF SLIVER produced by card with Retracto-Pin stripper attachment.

metallurgical study has been made of the best material for the needles, and when this is done their service life should be appreciably increased.

Results. The new stripper is still an experimental device, and test results are preliminary and incomplete. These results are given in the accompanying charts and tables.

Improved models of the Retracto-Pin stripper will soon be placed in several mills to undergo service tests under production conditions.

TABLE 1

Effect of Retracto-Pin Stripper Attachment on Card Waste

Waste	4-Hours Production[1] [2]		60-Hours Production[1]
	Without (per cent)	With (per cent)	With (per cent)
Flat strips	4.78	4.57	5.35
Cyl. & doff. strips	1.34	1.10	.28
Motes & fly	3.06	3.03	2.82
Sweepings	.39	.35	.36
Invisible loss	1.09	.53	.78
Total waste	10.66	9.58	9.59

1 Variety B cotton, SGO-1-1/16", soft character. Carding rate, 11 pounds per hour.
2 Average of 3 tests.

TABLE 2

Effect of Retracto-Pin Stripper Attachment on Yarn Quality

Yarn 36/1	4-Hours Production[1]		60-Hours Production[1] [2]
	Without	with	With
Strength			
Skein-corrected—lb	51.4	51.5	45.5
Count str. prod.—lb	1848	1848	1638
Single strand[3] corrected—oz	7.0	7.1	6.8
Single strand—coef. var.—%	13.6	13.3	16.6
Uniformity[4]			
Mean deviation—4 ypm—%	18.2	18.1	21.7
Mean deviation	18.8	19.1	21.2
Grade			
ASTM appearance	C—	C	D

1 Variety B cotton, SGO-1-1/16", soft character. Carding rate, 11 pounds per hour.
2 Test made with damaged card clothing.
3 Uster Automatic Single Strand Yarn Tester.
4 Uster Yarn Evenness Tester.

Influence of processing on nep formation

By R. H. Souther
Cone Mills Corp.

Abstract

NEP counts made at all stages from seed cotton to yarn indicate that about half of the neps found in the picker lap were put there by the gin, the other half by the cleaning and picking operations.

The cards remove an average of 70% of the neps present in the lap, but a gradual increase during the drafting operations brings the nep count back about equal to that of ginned lint.

From these studies, the following conclusions are made:

1. Control of neps can best be obtained by proper adjustment and maintenance of cards. The card removes neps; all other processes increase them.

2. Improper processing causes more variation in nep count than do differences in fiber properties such as fineness.

3. Variations in nep count due to fiber fineness may be reduced to a minimum and frequent testing of bales for fineness eliminated if cotton is carefully purchased and properly blended.

4. Further research should be concentrated on improved ginning, carding, and other processing.

Glass fabrics can be roller printed

Printing of Fiberglas drapery fabrics is now being carried out successfully on a commercial scale with selected resin-bonded pigment colors, according to a recent announcement by Interchemical Corporation - Textile Colors Division, Hawthorne, N. J. A modification of the usual procedure for printing cotton, rayon, and other fabrics is employed. It involves the use of special binders and lubricants (sometimes referred to as "Process 78") in conjunction with selected pigment colors.

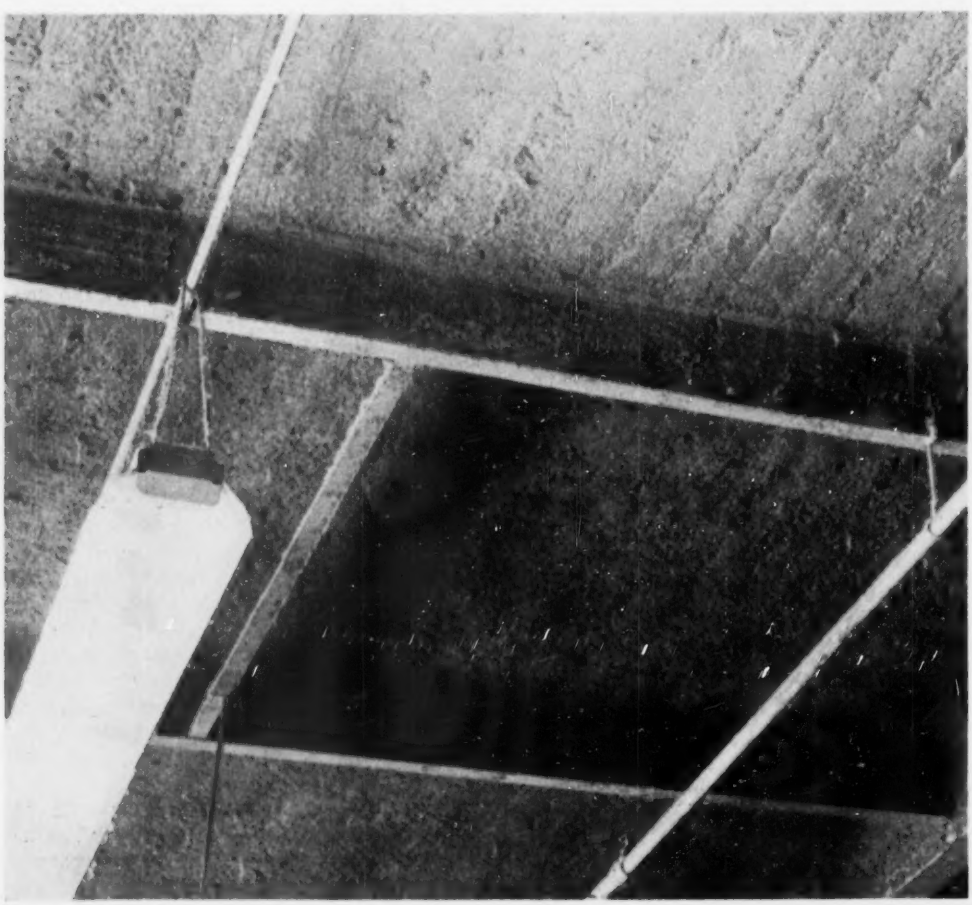
The modified procedure for roller printing Fiberglas drapery fabrics was developed by Owens-Corning Fiberglas Corporation and Interchemical Research in cooperation with several of the leading printers of drapery fabrics.

Printing of Fiberglas drapery fabrics is carried out on ordinary roller printing machines with a fairly shallow engraving on the print roller. After printing, the fabrics are dried and then cured at 300 F for three minutes. This is followed by overpadding with a solution of Quilon; curing is carried out again at 300 F for three minutes. The fabrics are then soaped lightly in a non-ionic detergent, and dried.

Preliminary trials on printing Fiberglas drapery fabrics on surface printing machines with selected pigment colors and special binders and lubricants have been made and, to date, look most encouraging.

How's your weave room condensation?

Troubled by condensation and spoilage from dripping, this textile plant (with metal roof) had its weave shed ceiling sprayed with a combination of asbestos-rockwool-latex. Now, no drip—less noise. The working crew first sprayed latex on the ceiling to hold the fiber, then sprayed the combination of asbestos-rockwool-latex at the same time. Mill operation was not disturbed because work was done over the weekend.



TIPS ON SETTING COTTON CARD

1. To set doffer to cylinder, loosen nuts holding doffer bearings before attempting to set. Adjust nuts on doffer adjustment rods to proper gauge between cylinder and doffer. When setting, turn doffer in direction of production rotation and set to highest point. Always leave adjusting nuts in backing-off position. Tighten doffer bearing nuts to hold bearings securely. Re-check setting.

2. To set comb to doffer, loosen nuts holding comb stand and comb box. Make proper adjustment on adjusting screws or nuts when sweep of comb blade is nearest doffer. Tighten nuts holding comb box and stand, leaving nuts or screws in backing-off position after desired setting is obtained. Re-check settings.

3. Card plates are usually warped. Setting can be obtained by use of paper or tin shims, correctly placed *underneath* plate at seatings. For plates sprung away from middle of cylinder, place shims between cap screws and outside edge of frame side. For plates sprung into middle of cylinder, place shims between cap screws and inner edge of frame side. Sprung plates can be trued by peening, should a man experienced in this operation be available.

4. To set flats, five flats should be removed, so that when flats are cranked around, openings will coincide with adjusting stands. Loosen jam or clamp screws that affect settings. Set flats to gauge, holding flat down near end while setting is being made. All rounded nuts and damaged screws and washers should be replaced before setting. After adjustments are made, tighten jam or clamp screws. Always leave adjusting nuts in backing-off position. Re-check settings.

5. To set licker-in, mote knives, screens, and feed plate, remove the feed plate. In setting licker-in to cylinder, loosen nuts holding licker-in bearings. Make proper adjustments on adjusting rods, leaving nuts in backing-off position. Tighten nuts on licker-in bearing. Re-check setting with licker-in belt on.

6. To set screens, remove caps from licker-in bearings and licker-in from card. Remove mote knives. Clean licker-in basket-screen thoroughly. Make proper settings to gauge on card screens to cylinder at back, middle and front, right and left hand sides. Set licker-in basket to licker-in, using the licker-in templates or special gauge. Clean licker-in shrouds and ends of licker-in. Replace licker-in. Secure caps. (Note: Before replacing licker-in, inspect mote knives for burrs and other damage. Replace mote knives and set brackets to give correct angle of mote knives on cards where angle is adjustable. Make adjustment on knives.)

7. Clean feed plate. Place in position. Set to gauge. Leave adjusting nuts in backing-off position. Tighten cap screws to secure plate to card frame. Re-check setting.

8. Set flat stripping comb to flat when comb blade sweep is nearest flat. Leave adjusting nuts in backing-off position. Re-check setting.

NOTE: Reprints of these tips will be furnished, free of charge, on request to Ashworth Bros., Inc., Fall River, Massachusetts.

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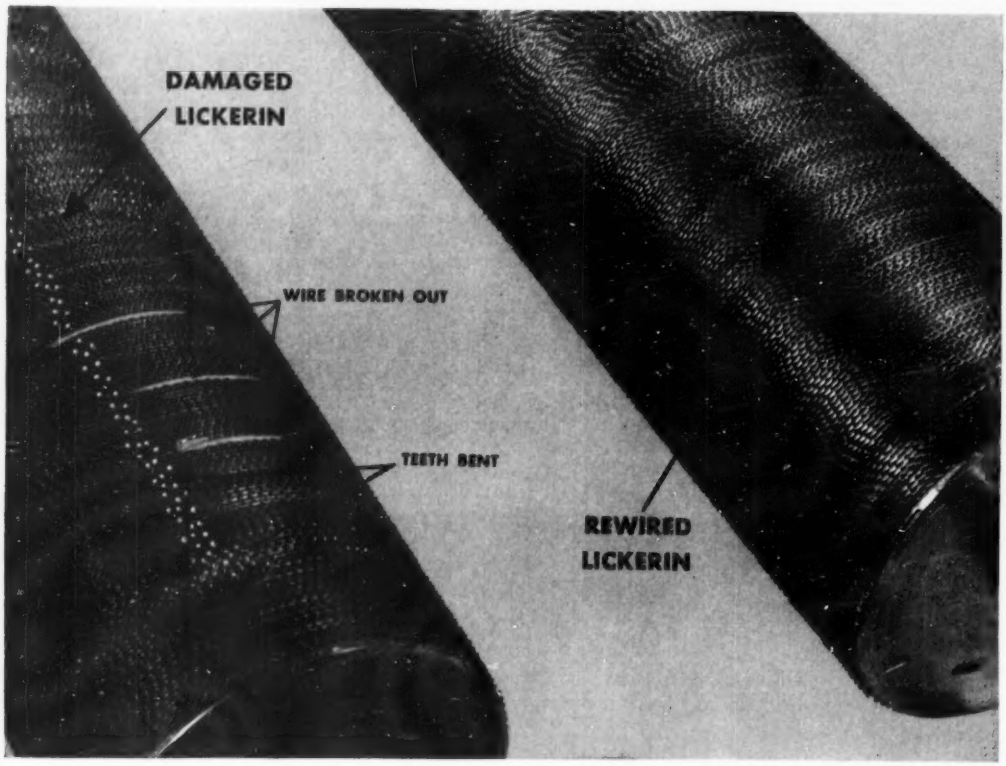
IT PAYS TO KEEP YOUR LICKERINS IN GOOD CONDITION



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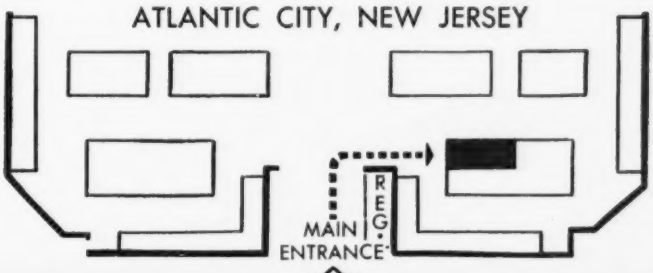

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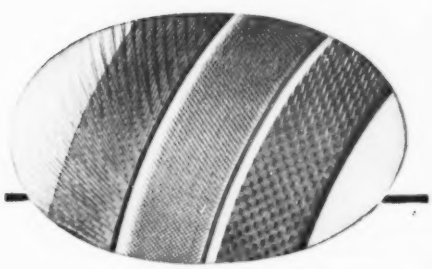

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Ashworth CARD CLOTHING

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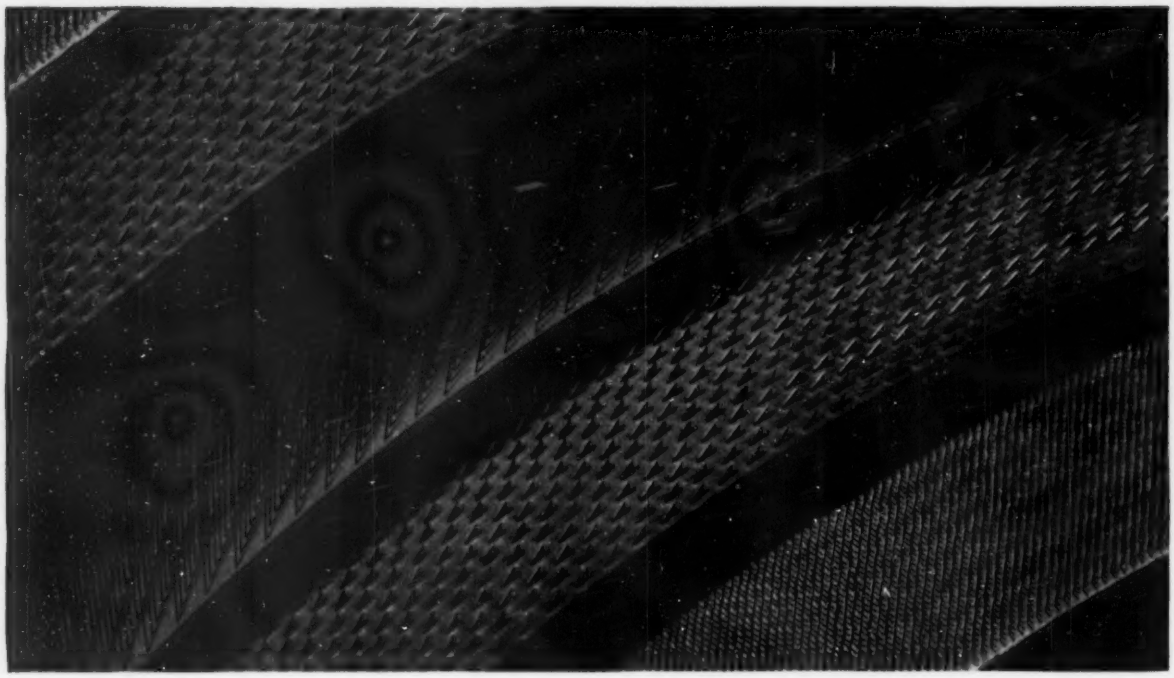
CARD CLOTHING



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MORE MUSCLES AND LESS FAT

By Ringgold Ardon

"If our defense expenditures are made prudently, and with an eye solely to defense, and with no regard to making political friends and influencing voters, it should be well within the bounds of possibility to cut another ten billion dollars a year off our national budget."

AS THIS is written on March 1, the shadow of the tax gatherer is lengthening in the land, and we are all reminded of the fact that the hard-pressed American taxpayer is urgently in need of relief. This relief can only come from a reduction in Government spending, which is usually synonomous with a reduction in Government waste. The amount of money spent for a certain purpose by the Government is often no indication of the value of the results accomplished. The present Administration seems to be serious about reducing waste. Strength is associated with muscle and not with fat.

Following a statement by the Secretary of Defense that during a certain period we had saved five billion dollars previously planned for expenditure for defense, and were yet stronger without having spent this money, a senator is reported to have said, "If we have saved five billions and are stronger, why not let's save ten billions and be twice as strong?"

Well, why not?

It seems like a thoroughly sound and practical proposition to anyone who has made a study of Government methods of operation, and surely a senator with years of inside experience in such matters would quickly see the feasibility of getting more results for less money.

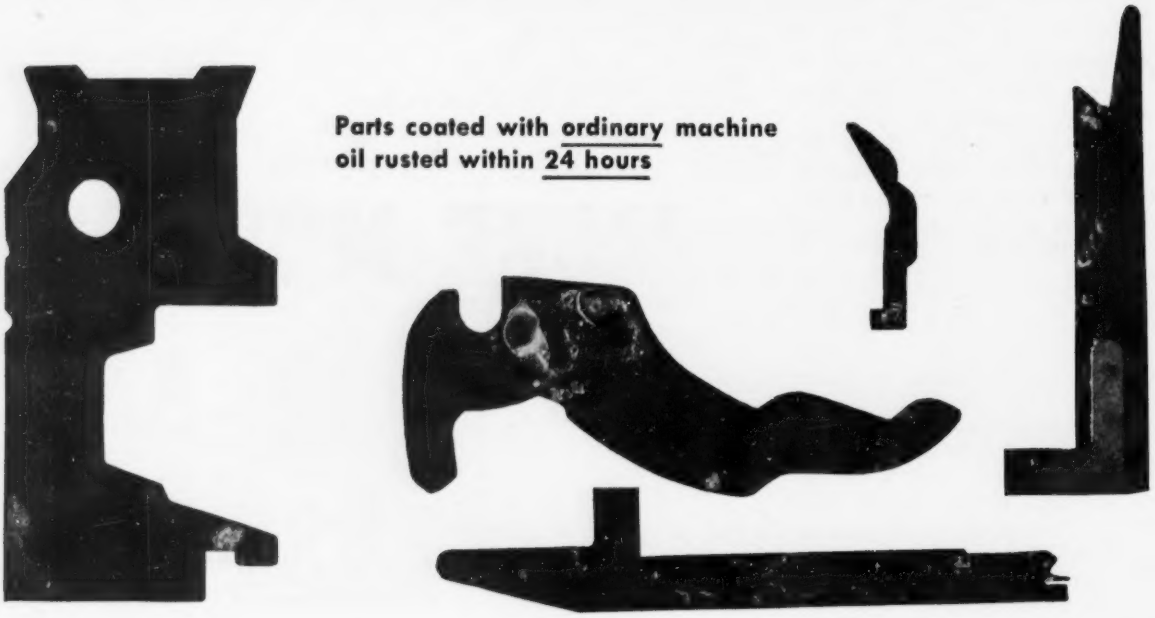
The idea has certain political drawbacks, but as a plain question of practicality, it seems reasonably sound.

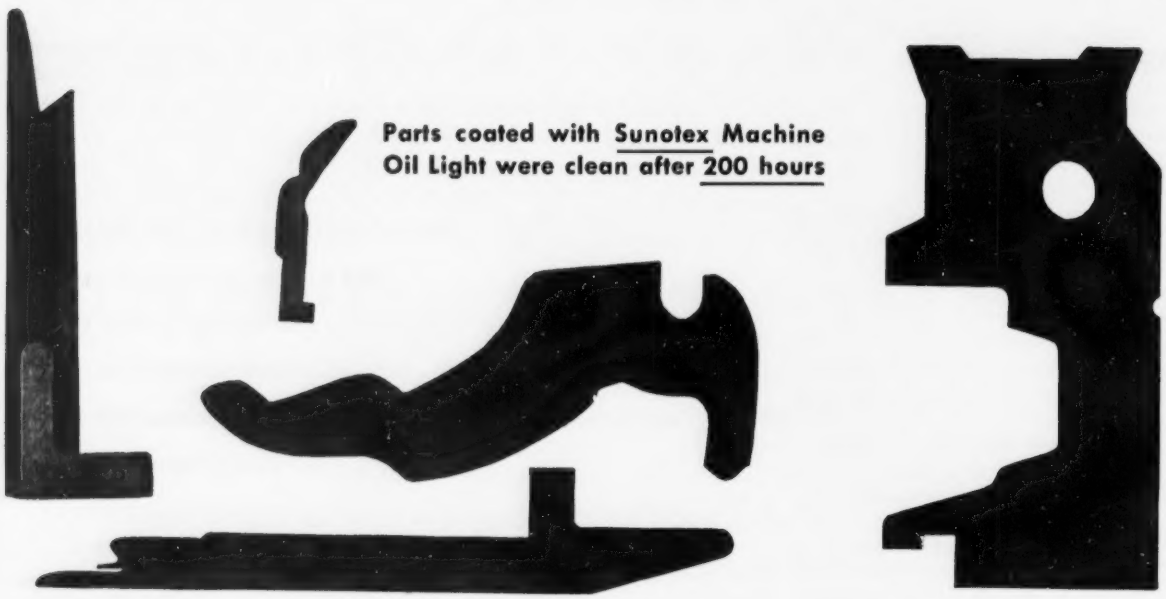
We have passed through a lengthy period during which the people in charge of our Government must certainly have felt that heavy expenditure of Government money was necessary for the maintenance of prosperity in the United States. No other assumption could explain their enthusiasm for pouring out Federal money wherever some sector of the national economy needed a little propping up. During the war, this tendency to pour out money just for the sake of pouring it out was most obvious. During a war, practically any economic insanity can be sold to the public under the guise of "wartime necessity," when it is actually political expediency which prompts the wastage of public funds.

If our defense expenditures are made prudently, and with an eye solely to defense, and with no regard to making political friends and influencing voters, it should be well within the bounds of possibility to cut another ten billion dollars a year off of our national budget.

The people who run textile mills have an unusually good opportunity to study the workings of those productive facilities operated by the Government. These textile mill managers are large employers of labor, and it is a rare mill man who can not contribute his quota of stories on the subject of Government waste as exemplified by experiences of his own employees. There is a monotonous uniformity about these stories:

Only last week the manager of a cotton mill mentioned that illiterates who were too stupid to earn the minimum wage in his mill had found jobs paying $100 a week or more at Oak Ridge. He mentioned one man who had worked for him as a sort of jackleg pipe fitter to fix leaky valves and do odd repair jobs around the mill. He did not consider this man as a very high-class workman, but the chap quit the mill and went to the atomic energy plant near Augusta, Georgia, and later visited the old home





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town and cashed his most recent weekly pay check for $212.

A Georgia manufacturer had one of his men give notice a few months ago, and questioned him to find out what he was dissatisfied about.

He wasn't dissatisfied about anything. He liked his job and the people he worked with, and the wages were good. He added, however, "At Oak Ridge, they pay fantastic wages, and I can't afford to pass up a chance like this." His employer pointed out that he had said the job he was going to would last about six months. What then? The workman replied that he wasn't worried about that a bit, for he figured the Government never fired anybody, and that when this job was done, there would be something else to do at maybe even higher wages.

Another mill executive said that some of his people who had left him to work in war plants had come back and stated that they couldn't stand the loafing and would rather work in the cotton mill for nothing than to put up with weeks on end of nothing whatever to do.

Literally hundreds of reports of this sort have come to our attention from reputable people who got the information from their own employees or from relatives or close friends working in the Government facilities involved.

Other stories have come to us from people who professed to know something about the politics in their localities, and who told of huge expenditures for Government facilities on the basis of political pressure, and without regard for any real defense needs. Practically any of our readers will recall instances where some move was made to close down one of these useless facilities, and will remember the frightful outcry raised by everybody in the area over the discontinuance of this thing which was so necessary to them. Not to defense, but to them.

One thing is certain about any period like this when Government squandering is considered the key to national prosperity—you have to pass *through* it. There is no such thing as staying in it indefinitely, because that way lies complete and utter bankruptcy, both moral and financial.

If we have an Administration which is trying to operate on the theory that defense dollars should buy defense, and nothing but defense, and buy as much of it as possible with the least possible waste, there is nothing unreasonable about expecting to get about twice as much for the money spent as could be expected where money is spent primarily for political fence-building, and with the production of military equipment as an incidental consideration.

About ten years ago a young man working in a huge war plant employing about 30,000 people was asked by a friend of ours who knew him well if that plant was a good place to work. The young man replied that it was a good place to get paid, but he didn't call it a good place to work, since there was not enough work there to amount to anything.

That remark describes typical Government employment about as well as it could be described, although a young fellow in a Georgia mill seems to have done equally well when the president of the mill asked him how he had fared at a certain big war project. The young man said, "All my life I have been looking for the perfect job, with all pay and no work, and that was it." That boy drew pay in that particular plant for about three years, and according to his own testimony never did anything.

The location of some free spending Government facility in any community is a master stroke for the politician responsible for getting it there. Whether the thing was needed, and whether it will do any good after it is established, might be open to question, but the fact that the people benefiting from that facility will furiously fight its removal, regardless of its uselessness, is not open to question.

No community looks upon waste of Government money in its trading area as an evil thing. Waste, of course, is bad, but it is always waste somewhere else.

If the present Administration is seriously interested in more defense for less money, it will create

Protective Coverings for Cotton Bales Under Study

Possible methods of improving the American cotton package—or the cotton bale—are being tested intensively, according to Dr. Burt Johnson of the National Cotton Council.

Many package designs, especially of solid fiber paperboard and corrugated boxes, are being tested. Studies of canvas covering were just being organized toward the end of 1953.

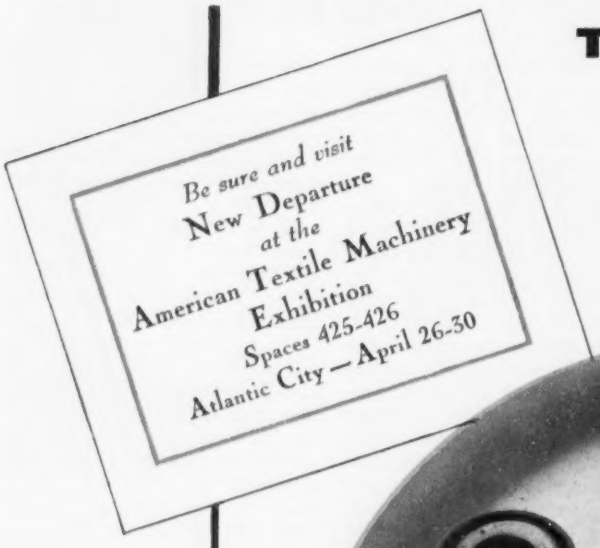
Dr. Johnson said that the present cotton package, besides being unattractive, offers inadequate protection of lint from tar, grease, dirt, rain, and other contaminants on the road from gin to spinning mill.

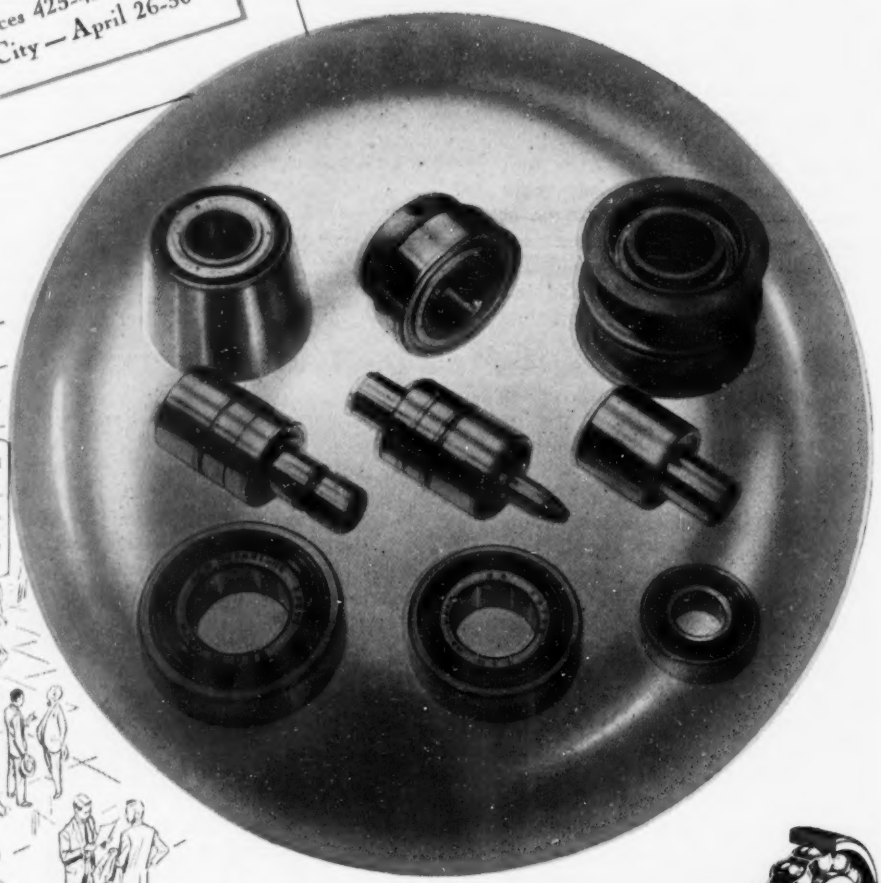
A committee was formed to tackle this problem last year after it became apparent that it was one of the most serious facing cotton marketing. Two objectives were established early in the search: (1) a bale covering that would protect lint from contamination at all times; (2) a wrapper that would provide easy access for sampling without the necessity of slashing or otherwise damaging the cover.

At least ten different designs have been submitted to the Council for experimentation with canvas. They include a "mail sack" type of bag, and several coverings which can be closed or unclosed with rope lacings or zippers. These coverings would enclose the bale ties. It would be a simple matter to unlace or unzip this type covering for sampling, then close up the opening to give full protection to the lint.

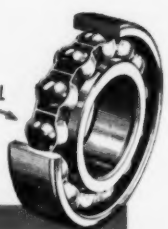
The development is under way of improved bale ties that won't rust and contaminate the baled lint, and that can be used again.

"EXHIBIT A" at the Textile Exhibition





NOTHING ROLLS LIKE A BALL



At New Departure's display at the Exhibition you'll see the latest developments in **ball** bearings for textile machinery, including the newest Self-Sealed bearings. Designed for today's higher speeds . . . greater loads . . . increased production demands . . . New Departure textile bearings require little or no attention for years at a time!

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enemies by the million the moment it stops spending this money which is so vital to maintaining the status quo in hundreds of communities. The question of whether the facility involved has any military value or not, has long since been submerged by the question of what can the community do without it.

If the maintenance of a suitable military establishment is regarded as purely an economic problem, we should certainly be able to maintain it for about half the cost involved if it is considered as a political problem. Any determination of the utility or the uselessness of a given facility may be made from political considerations as long as a Congress elected by voters has the final say-so in such matters. Few politicians, anxious to hang onto a job in the Congress, relish the idea of martyrdom over nothing more important than saving a few millions, or billions, of the taxpayers' money.

Even if by some miracle the politicians became patriotic enough to risk such martyrdom, there still remains the formidable obstacle of bureaucratic incompetence. There is a vast deal of difference between the way any productive facility will be operated by people who have to make a profit out of it, as compared with people who haven't the slightest interest in whether the job is done efficiently or economically or not, and who are constantly operating under pressures to force inefficiency and waste.

The present Secretary of Defense is undoubtedly a very able man, thoroughly versed in the lore of production management. Watching the way a Government gets things done must cause him a great deal of pain. It will be remembered that another production specialist, Mr. Knudson, encountered this same maddening difficulty in adapting himself to the idea of the Government's way of doing business, and he was retired as a Lieutenant General and sent about the country inspecting war facilities. One of our friends accompanied him on a tour of a notorious plant, where he was regaled with tremendous accounts of the fantastic accomplishments in this place.

He finally insisted on being taken out in the plant and spared the rest of the hot air in the office. Upon walking about 100 feet into the plant, he turned to the politician who was showing him through it, and said, "You wouldn't try to fool the old man would you?" and that was the extent of his comments about this marvelous facility. Many another man, familiar with manufacturing and production methods, has felt the same way after visiting a Government facility.

If the present Secretary of Defense thinks he can change all of this, and inject a little efficiency into Government procurement, more power to him, and the general taxpayer will bless his name for doing it, although the specific taxpayer in a locality where some futile experiment in boondoggling has to be closed, will bitterly complain.

Downtown store window featured textile manufacturing.

Here's How Ga. Tech Students Stimulate Interest in Textiles

Students at Georgia Tech joined in a cooperative effort in observance of Engineers' Week during the last week in February. The textile students contrived a display at Crenshaw Field House, a window display commemorating the occasion at Davison's department store in downtown Atlanta, and open house at the Harrison Hightower textile building on the campus.

The Field House display featured Jacquard hand loom weaving and card cutting, with machines actually in operation. The background motif was Jacquard designs and Jacquard woven fabrics, and a section was devoted to yarn manufacturing. Yarn manufacturing was depicted in a series of pictures of operations with actual samples underneath the pictures. The pictures show processes from raw stock to finished yarn.

The window display at Davison's featured the manufacturing processes of cotton and synthetics, and thousands of people viewed the display each day.

The open house at the textile school on the campus at Tech included guided tours through the mill machinery and facilities of the textile department.

The entire program represents an effort by the students to interest the public and potential students in textiles.

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TEXTILE MACHINERY EXHIBITION — ATLANTIC CITY — APRIL — 1954 — AMERICAN ASSOCIATION

CEN-TENNIAL
COTTON GIN COMPANY

Columbus, Georgia

Quality Control Conference

About 200 men representing textile mills and allied interests from Maine to Texas were in attendance as the Fourth Annual Conference of the Textile Division, American Society for Quality Control, met at Raleigh, N. C., February 5 and 6. An innovation at this year's conference was a series of elementary and advanced educational seminars, held concurrently with one day's Technical Papers Sessions.

At the Division's business meeting, a committee was appointed to direct the production of a series of film strips illustrating textile quality control subjects.

Three of the technical papers presented are abstracted on this and the following three pages of editorial matter.

Variation in Fiber Blends

By Geoffrey V. Lund
Courtaulds, Inc.

Abstract

WITH present day processing machinery it is impossible to obtain a blend, for example of black and white fibers, in which the fibers are laid together in an orderly manner so that black is always separated from black by white, and white is always separated from white by black. The best that can be obtained is a random distribution of single fibers in the three dimensions of the yarn.

From theoretical calculations, confirmed by practical experience, four major characteristics of yarns spun from fiber blends have been determined:

1. Finer yarns appear less well blended than coarser yarns, when the yarns are spun from similarly proportioned blends of similar fibers.

2. In yarns of the same count, those spun from fibers of coarser denier will appear more streaky.

3. In yarns of the same count, spun from blends of distinctly different colored fibers of the same size, those with distinctly unbalanced blends, such as 90/10, will appear more streaky than a 50/50 blend.

4. A good way to get a deliberately streaky effect is to include a small percentage of distinctly different colored fibers of a coarser denier than the rest of the blend.

Processing Factors and Intimacy of Blend. Fibers are not always blended in the picker room; they may also be blended:

1. Before opening
2. At the 1st or 2nd head of drawing
3. At the roving frame
4. At the creel of the spinning frame

Figure 1 is a conventionalized cross section of a yarn containing 64 fibers of a 50/50 black and white blend distributed completely at random. It was constructed by using a table of random numbers, assigning a number to each square, and blacking in each square whose number had a second digit of 1 to 5 inclusive.

This is the type of cross section found in a yarn made from fibers

Fig. 1. Conventionalized cross section of a yarn spun from a 50/50 black and white blend, with 128 doublings following carding. Fiber distribution is completely random, since the number of doublings is greater than the number of fibers in the cross section.

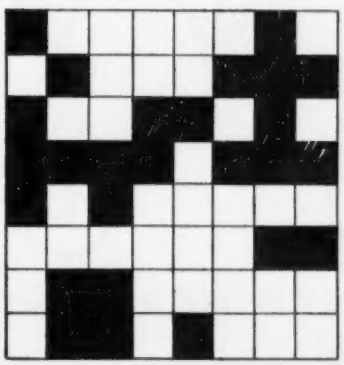


Fig. 2. Cross section of a yarn spun from one black and one white roving.

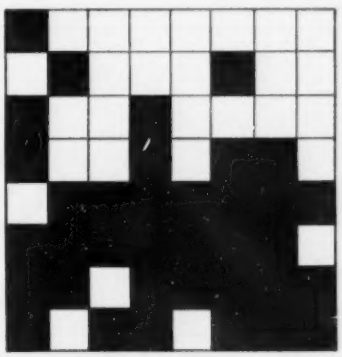
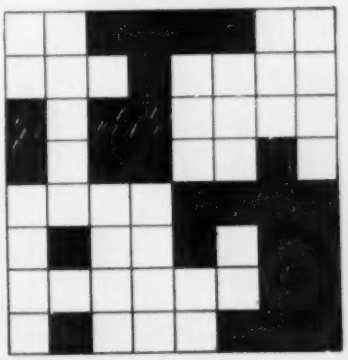
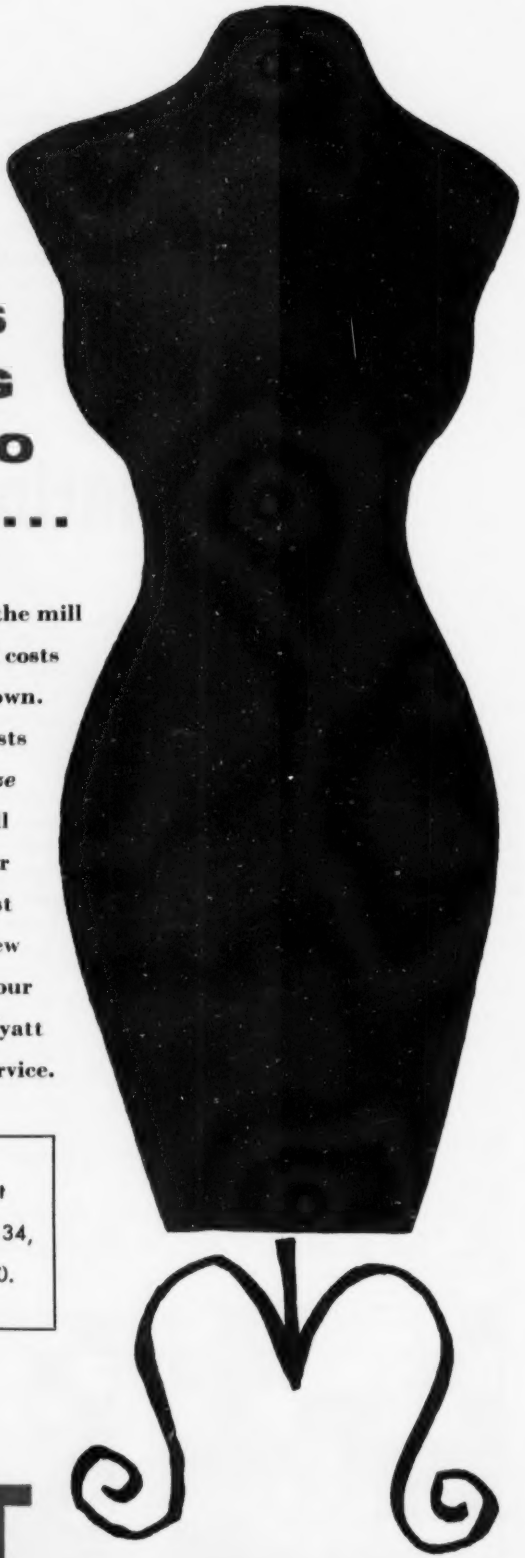


Fig. 3. Cross section of a yarn spun from fibers blended at the last head of drawing (16 doublings).



WHEN EVERYTHING GOES ACCORDING TO FORM . . .



Who worries about bearings when the mill is running smoothly? Production is up and costs are down. But then comes the breakdown. Equipment fails, production falters, and costs go soaring. *And that's when you realize you should have insisted on Hyatts!* For in all types of textile machinery, Hyatt Roller Bearings are your best insurance against costly down time. Before you buy new equipment or make change-overs, write for our *new Textile Bulletin.* Or contact a Hyatt sales-engineer. He's always at your service.

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blended at the breaker drawing, and is spun from elements of 128 card slivers (8 x 8 x 2 doublings). The number of doublings is greater than the number of fibers in the yarn cross section, hence the random distribution.

Figure 2 represents the cross section of a yarn spun from one black and one white roving, each of the same hank. In this diagram, the cross section was divided into two parts, and the assumption made that some transfer of black to white and vice versa occurs. The chances for transfer were assumed to be 1 to 4. The blend is obviously less than ideally intimate.

A blend made at the last head of drawing with eight ends up, and spun from double roving, is represented in Figure 3. This gives drafting from 16 elements of 4 fibers each, to make a yarn with 64 fibers in its cross section. This blend is again far from ideal, but better than that shown in Figure 2.

From these studies the conclusion has been reached that a random arrangement of single fibers is obtained as soon as the number of doublings after blending exceeds the number of fibers in the cross section of the yarn. Therefore, considering blending only, finer yarns need fewer doublings to get random fiber arrangement.

In Figure 4, the relationship between yarn number and average number of fibers per cross section of yarns made from 3-denier and 1½-denier fibers is shown. From this chart it is clear that the usual number of doublings after the card is enough to assure random fiber arrangement in yarns down to 28s spun from 1½ denier, and down to 14s when spun from 3 denier.

Long Term Variation in Blends. In addition to intimacy of blend, a further problem of importance is to carry the correct proportions in the blend through to the yarn. This involves accurate proportioning, uniform moisture content in each constituent of the blend, and prevention of selective action or bunching.

Proportioning is usually carried out by weighing, although one English system proportions by bulk measurements. In addition to periodic checks of the proportioning device, it is advisable to check also, for example, that a 14,000 lb run of 50% black and 50% white has in fact consumed 7,000 lb of each.

The effect of variation in moisture content is actually smaller than has usually been supposed. The nomograph in Figure 5 shows a 50/50 viscose/acetate blend with the viscose varying between 16% and 8% moisture content, and the acetate varying between 10% and 2% moisture content.

Taking the extreme case of acetate with 2% moisture content and viscose with 16% moisture, changing abruptly to acetate with 10% moisture and viscose with 8% moisture, no doublings, the composition of the blend changes only from 46.8% viscose to 50.5% viscose.

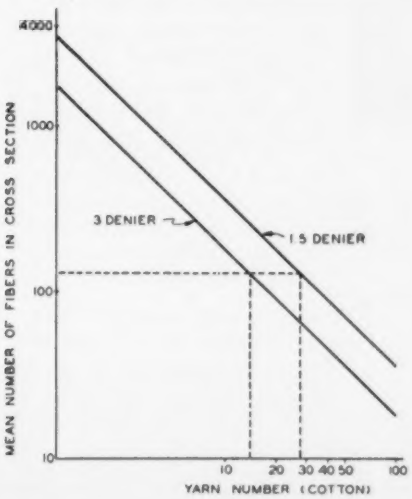
Selective action or bunching can usually be cured by putting deflector plates in the blending bins, and adjusting lattice speeds and comb settings in hoppers.

Quality Control of Blends. In the opening room, quality control chart techniques are useful in checking the weighing mechanism of the blending feeder. In addition, of course, the weights of fiber actually consumed in each blend should be checked.

Where blends of fibers which can be separated chemically are being processed, control charts may be used on finisher drawing frame sliver. This point is late enough in processing to be indicative of the final blend uniformity of the yarn, and early enough for corrective action to be taken where necessary.

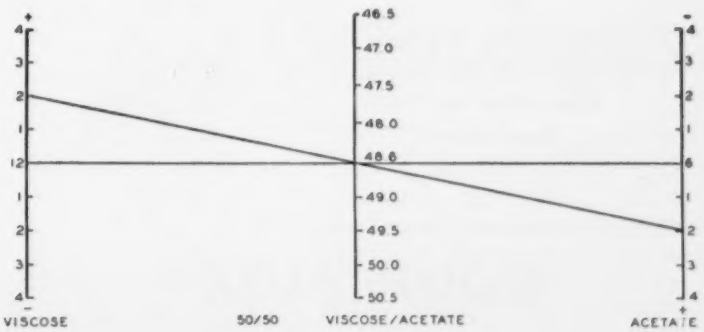
Samples from spinning should be knit in adjacent bands on a circular knitting machine, or woven as filling in a filling faced weave. Differential dyeing, where possible, assists in spotting changes in blend composition.

Fig. 4. Relationship between yarn number and average fibers per cross section for 3-denier and 1.5-denier fibers (plotted logarithmically).



Other abstracts appear on pages 199 and 201.

Fig. 5. Effect of moisture on the composition of a 50/50 viscose/acetate blend. A line drawn from the outer scales connecting the moisture content of each fiber gives the actual percentage viscose (oven dry basis) in the blend on the middle scale.



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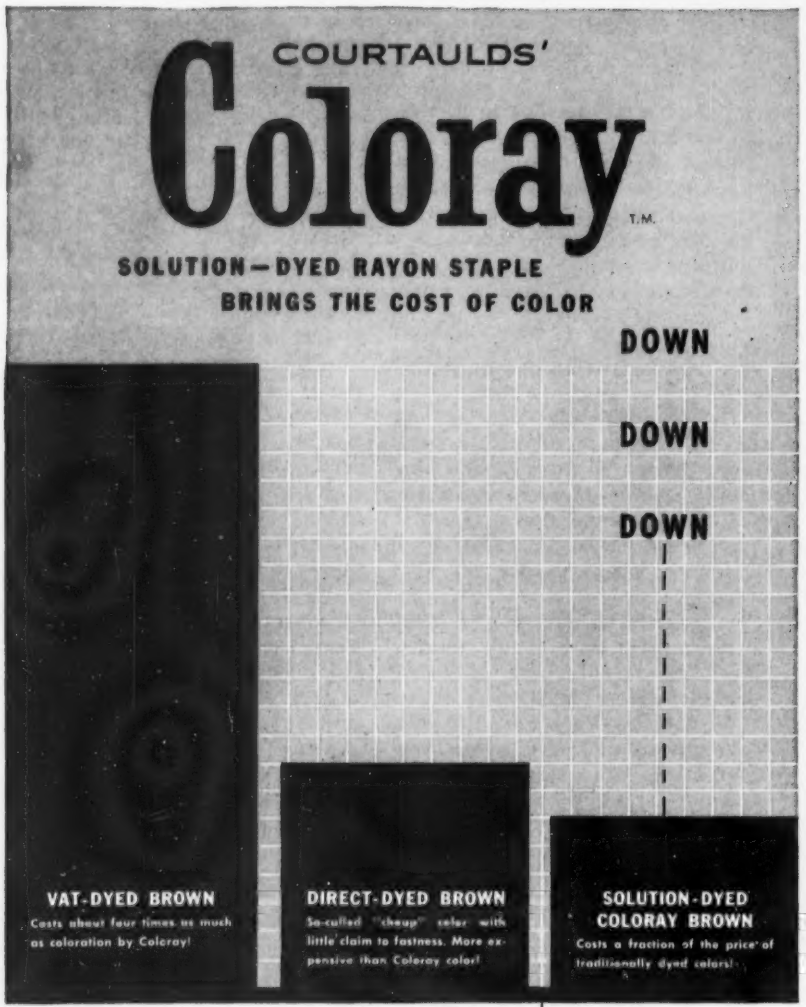
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Here's why Coloray is so good for volume business. It's a *bargain.* Coloray colors offer real savings over traditionally-dyed colors. And in the popular dark shades, where dyeing costs zoom, Coloray savings are spectacular!

Look at the price advantage with Coloray Brown. You do as well with Coloray Black. Almost as well with navy, dark green and red. And so on down the Coloray range. Coloray also greatly reduces the cost of color in blends—whether the other fiber is dyed or not, whether the other fiber is synthetic or natural. Yes, Coloray makes possible all kinds of color wonders . . . on a shoestring. For instance! A beautiful grey can be developed by blending ⅓ Coloray Black with ⅔ white cotton. Color cost: as little as ⅓ of a cent per yard!

Coloray cuts processing costs *too.* Here's a color fiber ready to spin into a color yarn. No winding or re-winding of yarn before and after dyeing. And here's really *uniform* color—side to side, end to end. No streaky, shaded ends to discard—at a loss. You profit all the way with Coloray, the original solution-dyed fiber by Courtaulds, the company that developed the viscose process.

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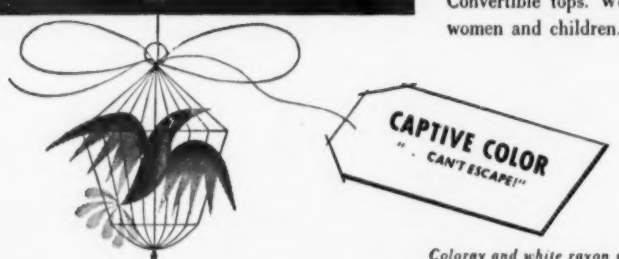

For further information, write Fabric Development Dept.

Coloray and white rayon staple are produced in Courtaulds' new plant at LeMoyne, Alabama. 13 basic colors are available in these deniers and staple lengths. 1½ denier — 19/16" staple, 3 denier — 2" staple

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Evaluating New Textile Machinery

By Richard C. Tanner
Fieldcrest Mills

Abstract

DURING the past eight years tremendous sums of money have been spent by the textile industry for new machinery, and it appears that there will be further large expenditures for plant modernization during 1954, despite the current slump in the textile market.

More and more textile manufacturers are adopting systematic procedures for determining when it is economically advantageous to replace old equipment with new. These procedures vary in detail among companies, but all seek to determine what return may be expected on the capital invested in new machinery and equipment.

A replacement analysis requires detailed knowledge of the operating cost per unit product of present equipment and of each item of replacement equipment under consideration. This includes such factors as direct and indirect labor cost, maintenance, down time, floor space, waste and seconds, power, insurance and taxes, supervision, and administrative costs.

In addition, data must be available on the salvage value of present equipment; and the installed cost, useful life expectancy, and terminal salvage value of proposed equipment must be known.

This information is usually on record for equipment in place, and may be obtained for proposed installations in several ways.

The machinery manufacturer's estimates may be accurate for machines which have long been in use. However, the limitations of this source of information are obvious, particularly where newly developed machinery is concerned.

The experience of other mills is sometimes a reliable guide, if the opinion offered is based on accurate records. Use of information obtained from other mills must always be tempered by the fact that no two mills have exactly the same operating conditions, and therefore the machine which did a good job for Mill X may not be the best for Mill Y.

Impartial evaluation by agencies such as the Institute of Textile Technology may be a valuable source of information, though necessarily limited in scope.

I.T.T. has recently completed an extensive study of the opening, cleaning, picking, and carding equipment in 20 member-mills. At least 20 different types of opening and cleaning machines were involved in the test, and the results give a good measure of the cleaning efficiency of each machine and of the degree of fiber damage it does.

An actual installation of a unit of the proposed equipment will give by far the most accurate information. To be truly representative of the results to be expected, the unit should be one selected at random from those available for purchase, rather than a demonstration unit.

If possible, the new machine should be integrated into the production line, and its characteristics studied alongside those of the machine which it is proposed to replace.

The characteristics to be evaluated must be decided in advance, and the plan of the study spelled out in step-by-step detail before any collection of data.

The statistical techniques that will be used to analyze the test data should also be decided upon beforehand, and a decision made as to what magnitude of between-machine differences will be considered significant for each characteristic studied.

Every effort should be made to stick closely to the original plan. Necessary changes should be made only after careful consideration of the effect the changes will have on the study as a whole. Conclusions should be based entirely on deductions made from test data.

Fiber Tests Help Cotton Buyers

By W. A. Julian
Burlington Mills Corp.

Abstract

UNTIL recent years, mills were forced to rely entirely on the judgment of the classer to procure cotton whose grade, staple, character, and other qualities were suitable for the yarns or fabrics they made. Today the subjective opinion of the classer is supplemented by the accurate measurements received from the labora-

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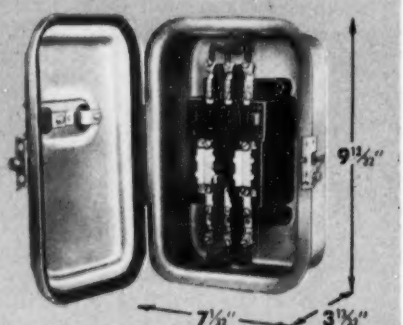

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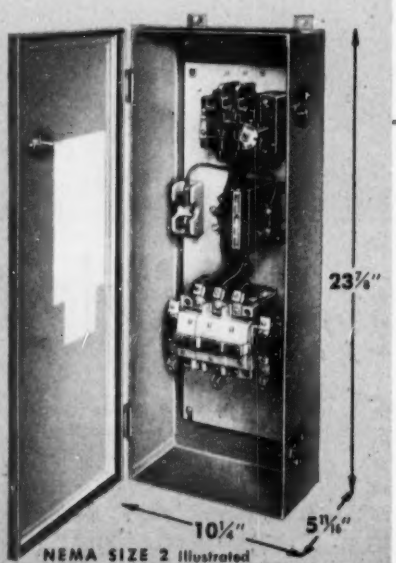

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Size 0, 3 pole, 2 hp to 600 volts a-c. Completely new, radically different . . . not just an adaptation of a standard switch. Unique, built-for-the-purpose rotary overload mechanism resists shock far in excess of any found in actual loom installations. Fully enclosed switch unit plus lint proof enclosure provides double protection against lint.

NEMA TYPE XII Enclosure for Magnetic Starters

For starter sizes 0, 1, 2 and 3. Used wherever switch ratings exceed 2 hp . . . or remote control is desired. Enclosures with heavy neoprene gaskets protect effectively against lint. Smaller, lighter A-H Type "RA" (Right Angle) Starters provide superior performance, dependability. Vertical contacts offer added protection by preventing accumulation of breakdown material.

NEMA TYPE XII Combination Starter

Smaller and lighter than any other combination starter of comparable rating, the "RAC" offers the advantages of the unique A-H Type "RA" Starter plus the exclusive new A-H "RAD" Disconnect plus the all new A-H enclosure that provides full protection against lint and other breakdown materials. Available in Sizes 0, 1 and 2 with fused or unfused disconnect or with circuit breaker.

The Arrow-Hart Controls shown have been designed and constructed throughout specifically for the operating conditions peculiar to the textile industry. Standards for safety, performance and ease of installation and maintenance were determined, met and exceeded in all these Arrow-Hart Motor Controls. Be sure to request a copy of "Electrical Controls for the Textile Industry" . . . complete with product, application and engineering data.

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tory, and by spinning tests.

Fineness. We do not require the cotton shipper to guarantee a specific fineness; we control our average fineness by blending. At the beginning of a season, we Micronaire each bale and lay down our mix by bale numbers in our opening room.

At our largest spinning plant we make a lay-down of 116 bales, divided into 12- to 16-bale mixes. We never use an excessive number of bales in an opening from the same shipping mark of cotton. The composite Micronaire reading of the opening room is checked daily.

If the average Micronaire reading is kept between 4.0 and 4.3, the ends down rate in spinning is satisfactory, and dye affinity remains constant.

We have also started to use the Causticaire method for determining maturity, along with our Micronaire measurements.

Strength. We make a composite Pressley break of each shipment of cotton, and control strength by selecting bales from different lots. We try to maintain a break of 80,000 lb or better.

The Pressley reading for weather-damaged cotton is not reliable since only the strong fibers are combed out and tested. For this reason, fiber strength tests of irrigated cotton are usually more reliable than those for rain grown.

Cavitoma. We use the 2% phenolphthalein test (see TEXTILE INDUSTRIES, July 1953, page 100) to check for the presence of cavitoma, although the dry weather of the past two years has reduced the occurrence of cavitomic cotton to an insignificant amount.

Our tests on cavitomic cotton showed an increase of 15% in comber waste and a 15% drop in yarn strength, with excessive ends down and variable yarn numbers.

Color. We use a Nickerson-Hunter Colorimeter to check color background, leaving it to our classers to determine the effect of preparation and foreign matter.

We have found it possible to mix Strict Low Middling, Strict Low Middling Bright, Light Spotted Strict Low Middling, Middling Extra White Light Spotted, Middling Light Spotted, and Middling Spotted by percentage, and maintain a Middling Light Spotted background on our picker laps.

Ginning Tests. We recently ran a series of tests on 30 bales of cotton, ginned for us under the supervision of the Cotton Research Committee of Texas. The purpose of the tests was to determine the effect of lint cleaners and overdrying at the gin. The results are summarized in Table 1.

United Kingdom Leads in Wool Imports; U. S. in Second Place

The United States increased its share of the world's wool trade from 11% in the prewar period 1935-39 to 31% in the postwar period 1946-51, rising from fifth position as an importer to first position, according to the Wool Bureau, Inc. In 1952 its share fell to 23% of world trade and its position to second, with the United Kingdom as a leader.

The seven leading countries (United Kingdom, United States, France, Italy, Japan, Belgium, and Germany) are taking a declining combined share of total world wool trade, reflecting increasing industrialization or rising standards of textile consumption in other countries. In 1952, the rest of the world took 9% of total exports, a rise from 6% of the total in 1946-1951 and from 3% of the total in 1935-39. This trend is likely to continue in the near future and to result in some contraction and significant shifts in world trade in processed wool and wool manufactures.

Of the seven leading importers, the United States is the only country which imported less wool in 1953 than in 1952. All the others increased their imports substantially, in varying degrees. If it is assumed that partial year changes will be representative of the entire year 1953, the U. S. share of total world trade will undoubtedly be significantly lower than in 1952. However, it will still be the second largest importer.

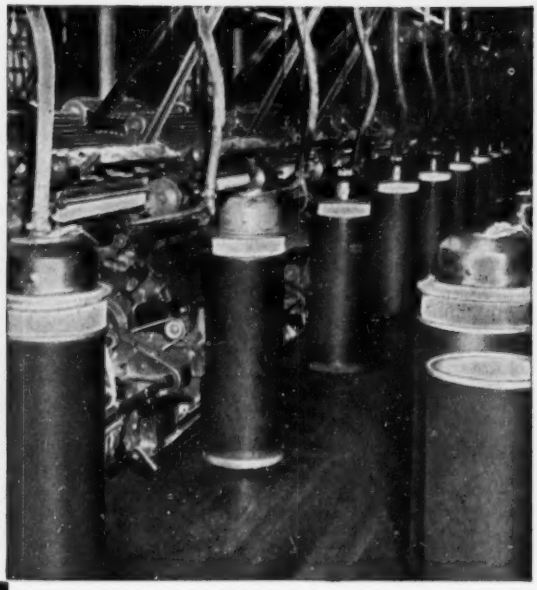
Significant shifts are taking place in the relative importance, as wool importers, of major - consuming countries other than the U. S. This is more readily appreciated from a comparison of estimated 1953 imports of these countries with their average imports during 1946-51. The United Kingdom emerges as a giant with its imports 51% higher. The U. S. is an isolated but distant runner-up to the United Kingdom with its imports 39% lower. The remaining five countries have become close competitors as a result of major gains in Italy, Germany, and Japan especially.

TABLE 1. EFFECT OF GINNING CONDITIONS

Test	Heat	Moisture Added	Neps in Card Web per 10 Grains[1]	Break Factor[2]	Yarn Appearance Grade
A	Low	None	237	2080	B
B	Average	None	138	2377	B
C	High	None	293	2143	B—
D	High	Average	212	2129	B—
E	Average	Average	225	2176	B
F	Low	High	199	1999	B—
G	Low	High	212	2286	B
H	Average	High	225	2216	B—
I	High	High	194	2088	B
K[3]	Average	Average	181	2315	B+
Regular Production	—	—	139	2447	B+

1—Card speed 7.2 lbs/hr.
2—24s yarn, 18 TPI
3—Lint cleaner bypassed
Micronaire, test cottons 4.2; regular 4.5. Pressley, test cottons, 72,900; regular 85,000
Test cottons Middling Bright to barely Strict Middling 1-1/16" Rio Grande Valley.

CUT OPERATING COSTS . . . *with* *Southern States* COILER CONVERSIONS



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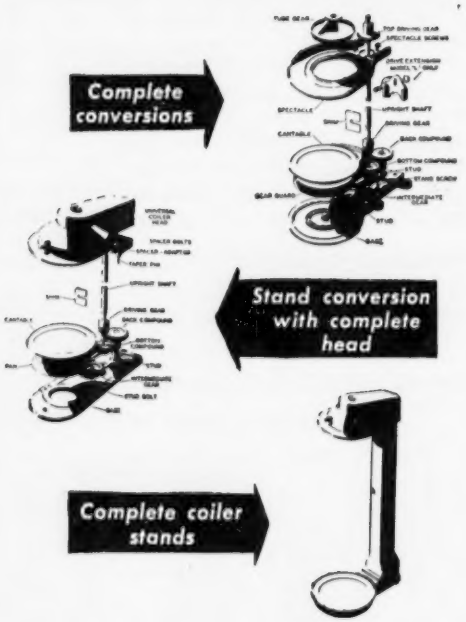

Southern States Equipment Corp.
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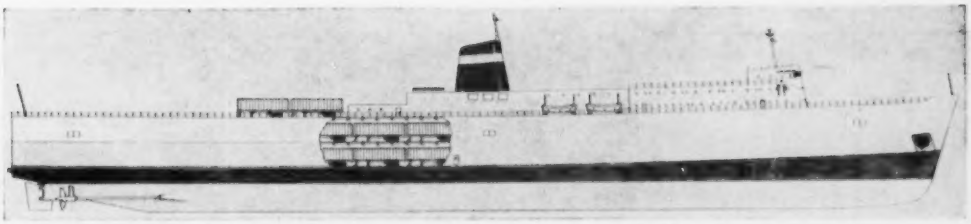


Artist's conception of the trailer-transport ship to be used.

Sea-Land Service Between South and East Proposed

Plans for McLean "Sea-Land" service, a new $50,000,000 co-ordinated water and land system for transporting freight between the South and the East, have been announced.

Officials of the trucking company expect the service to be inaugurated sometime next year. The first step in the new plan was completed recently when McLean Trucking Company acquired all the capital stock of S. C. Loveland Company, Inc., steamship and tug-and-barge water carrier serving all points along the Atlantic coast. An application has been filed with the Interstate Commerce Commission for approval of this transaction, and for the merger of the two companies.

Construction of four trailer-transport ships will begin when approval for the merger is obtained. The new ships will be 650 feet long and have a speed of up to 20 knots. The twin-screw, turbine-driven vessels are designed to carry approximately 240 trailers (see accompanying illustration).

Initially, the ships are scheduled to call at one South Atlantic port, probably Wilmington, N. C. or Charleston, S. C., and two North Atlantic ports, New York and Providence.

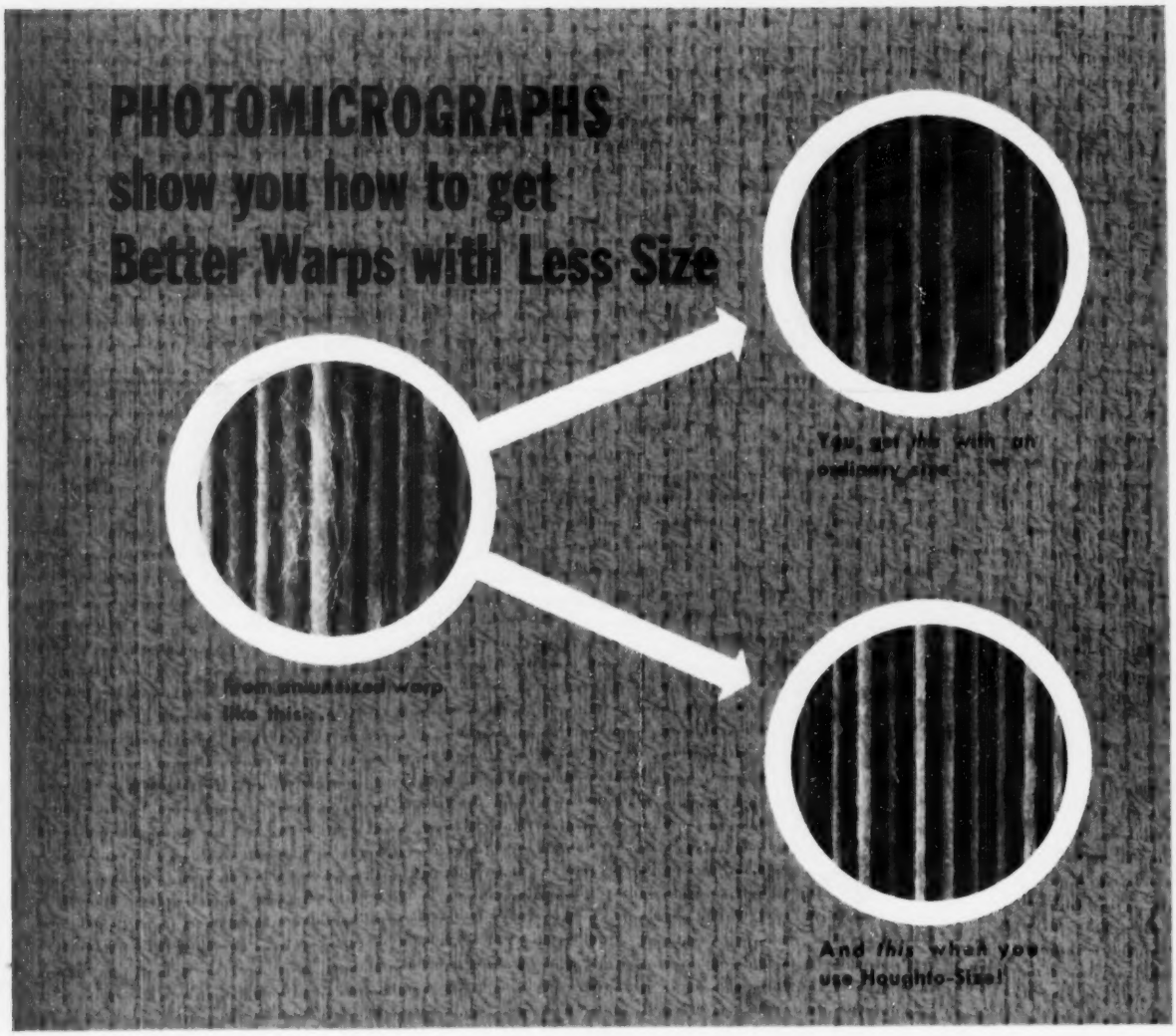
Vat-Acid Process for Piece Goods

The vat-acid method for application of vat dyes is particularly well adapted to padding, to development on the jig, and can be applied by the Du Pont pad-steam continuous dyeing process. As set forth in the Technical Bulletin of the Du Pont Co., the dispersion is padded in the same manner as a vat pigment and, as it has little or no affinity for cellulose, must be converted to the sodium salt to fix the dye to the fabric.

Pigment-pad application of dispersed vat pastes has always shown inherent deficiencies in the production of pastel shades. Results were frequently specky, and there was a lack of coverage and smoothness, particularly on low-count fabrics. It has been customary to use soluble vat dyes to overcome these difficulties; however, these dyes were not entirely satisfactory because of their cost and because the strongly acidic developing baths required are harmful to equipment. The vat-acid process presents a means of obtaining smoothness and elimination of specking by utilizing an acid-leuco pigment in an extremely fine colloidal dispersion.

The vat-acid dispersion is produced from the usual vat reduced with caustic soda and hydrosulfite conc. plus additional dispersing agent. The most effective dispersing agents are the condensation products of naphthalene sulfonic acids with formaldehyde. Other less effective, but useful, dispersants are the sodium lignosulfonate-type products. The reduced dye vat is made weakly acidic with an organic acid to form the acid-leuco or vat-acid dispersion. In practice, the vat-acid can be prepared by adding the reduced vat in concentrated form to a large volume of water containing acetic acid and dispersing agent or the acid can be added directly to the reduced dye at the padding concentration. A final pH of 5.0 to 5.5 is desirable. The selection of dispersing agent is important since the process depends upon the fine dispersion formed when the alkaline leuco is neutralized with good agitation.

Since the vat-acid is a highly dispersed colloidal system, and has no affinity for the fiber, there is a greater tendency for dyes to migrate than in conventional pigment application. For this reason the fabric should be thoroughly prepared, and if it is to be dried after padding, the drying should be carefully controlled. The padded vat-acid maintains its fine particle size; therefore, the subsequent reduction to the sodium salt is rapid which permits the use of lesser amounts of caustic soda and hydrosulfite than usual. Consequently, there is very little bleed-off in the jig or chemical pad.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Readers are invited to make use of this section for further discussion of published articles, or for discussion of problems arising in the plant. Names will not be used without permission. Payment is made for practical articles or for letters containing manufacturing information.

Address: Editor "Textile Industries," 806 Peachtree St., N. E., Atlanta, Ga.

The Effect of Lap Laying On Drawing Variation

EDITOR TEXTILE INDUSTRIES:

We were interested in the discussion by CONTRIBUTOR No. 8469, in the November (1953) issue of TEXTILE INDUSTRIES, entitled, "Poor Creeling Causes Variation at Drawing." Although we have written previously on this subject and may repeat some of the things contained in the original article, something of interest may be added in this instance.

Any carder who has not tested sliver containing lap layings on a sliver tester is really in for a shock. Before we bought the Uster tester we made a number of random tests on lap layings using the Saco-Lowell sliver tester. Most of the testing was done without the knowledge of the card tenders. The results convinced the superintendent and the overseer of carding that the card tenders, even the best and most experienced, needed some training in lap laying.

A spare card tender was put on and worked with each man (on all three shifts) while the regular tenders did nothing but lay laps. A laboratory technician, accompanied by the card tender, took the sliver to the laboratory and tested it in the presence of the man who laid the laps. The results were very gratifying, but of course rechecks are made at frequent intervals so that the tenders will not become too careless in laying of laps.

These tests are now being run on the Uster tester, using the "Inert" test which filters out the short term variations and thus makes it a little easier for the tenders to see just where the lap piecing occurs on the chart. We run the material at eight yards per minute and the chart at one inch per minute. In this way a 64-yard section of sliver, which should contain any ordinary lap piecing as well as some good sliver from both the old and the new lap, can be run in eight minutes on eight inches of chart.

This length of chart is convenient for observation (see illustrations at top of page 207). A bad lap piecing is illustrated in Fig. No. 1. While we do not find too many this bad now, we formerly had a lot of lap piecings as bad as this. A good lap piecing is shown in Fig. No. 2, although apparently the sliver is light on the ends of both the old and the new laps.

In order to determine the effect of lap laying on drawing sliver variation, we made two types of tests, as follows:

(1) Laps were laid on 18 cards, and the laboratory technician marked the cans containing the lap piecings and observed where the cans were used on the drawing

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Every kink, short-cut, time-saver, or quality improvement suggestion entered in the contest will be paid for immediately upon acceptance. The $100 award will be made as soon as all entries are judged.

The contest rules are simple:

► All contributions must be postmarked not later than midnight, July 15, 1954.

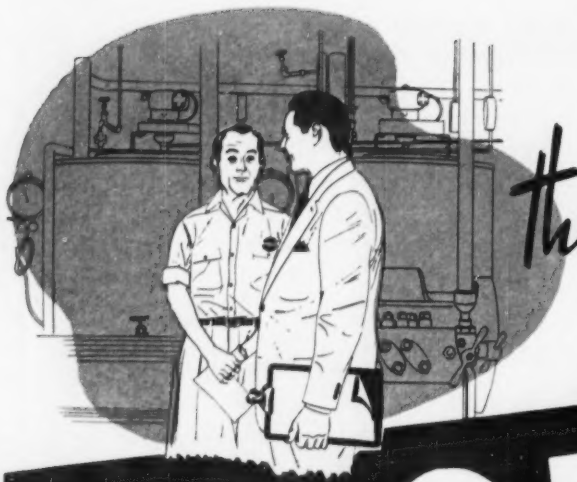
► No limit to the number of entries an individual may submit in any one contest.

► All entries paid for upon acceptance — no waiting. Extra payment for photographs that are usable. Extra consideration is also given kinks accompanied by legible pencil sketches or drawings.

► Entries must not have been published previously.

Send your contest entry to:

Editor TEXTILE INDUSTRIES, 806 Peachtree St., N. E., Atlanta 5, Georgia.



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frames. The drawing tender did not know what the marks meant, and he creeled the cans just as he normally would. There were six ends up on the drawing, and (as we had suspected all along) there were the 18 cans containing the lap piecings, creeled nicely behind three adjacent deliveries of drawing! This proves that creeled cans tend to remain together, especially when the drawing tender is short of card sliver.

(2) Two sets of six cans from six different cards were pushed to one drawing delivery. The first set contained lap piecings; the second set had none. One full can of drawing sliver was made from each set. The entire amount of sliver in the two cans was reeled into 5-yard lengths, weighed, and a frequency distribution made.

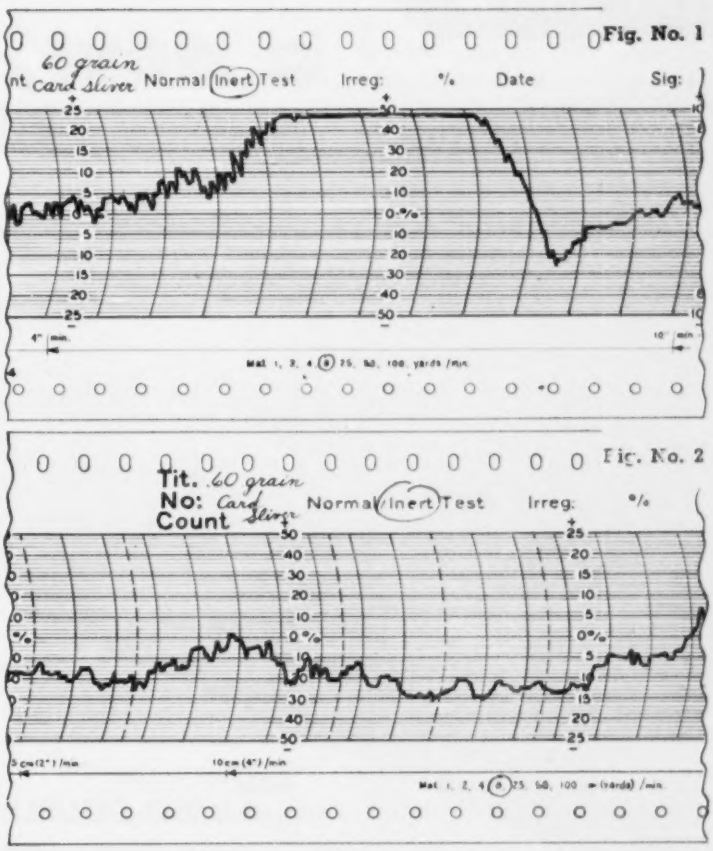
This distribution was as follows:

Grains	Test No. 1	Test No. 2
275	1	
280	6	
285	48	
290	37	
295	60	
300	72	4
305	87	32
310	94	103
315	93	200
320	45	122
325	25	50
330	17	2
335	8	
	585	513

If our calculations were correct, the coefficient of variation of Test No. 2 was only 1.72%, while that of Test No. 1 (which contained the lap layings) was 3.95%, or more than twice as great as that of Test No. 1 (which contained no piecings).

We think that these tests demonstrate clearly the effect of lap laying on the drawing sliver. It is evident that every effort should be made to educate the card tenders regarding the proper method of lap laying. Also, steps should be taken to have cans containing these piecings separated when being creeled on the drawing frames instead of being bunched behind a few deliveries.

CONTRIBUTOR No. 8663.

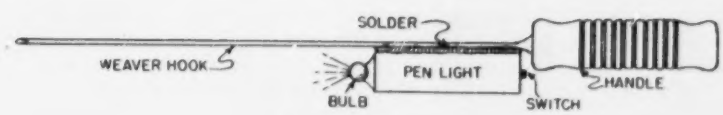


Improvised Weavers' Light Is Handy

EDITOR TEXTILE INDUSTRIES

No matter how well a weave room is illuminated, shadows and dark spots remain around the harnesses and reeds to hamper the weaver in his work. Here is an article that many weavers and smash men should find useful to solve the problem.

Purchase a pen flashlight with a switch or button on the bottom. Remove the bulb and battery from the flashlight. Down one side of the case scrape the paint off by using steel wool. Apply soldering paste to the bare metal and use a soldering iron to put a coat of tin on this spot. Next take a weaver's hook and use the steel wool to clean one side near the handle. Apply a coat of tin to this area also.



Next put the case of the light on the side of the handle so bulb end

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faces tip of hook and with switch near the handle. Proceed and solder the flashlight and weaver's hook together to make one unit. Replace the bulb and battery. A weaver can use the hook easily, and only one finger is needed to switch the light on or off, thereby having a handy light where and when it is needed most. The accompanying sketch shows how the assembled unit appears.

CONTRIBUTOR No. 8560

Yarn Evenness Formula Defended by Author

Subject Briefed: N. L. ENRICK *set forth a formula for yarn evenness which accounts for the chance factor (June 1953 issue, page 193). An example of the use of this formula was reproduced in Fig. 1. Messrs.* N. H. POMFRET *and* S. MITMINGER *criticized the formula in the February 1954 issue, page 169. The following comments are presented by the author of the formula in reply.*

EDITOR TEXTILE INDUSTRIES:

I should like to answer the criticism of my article "Formula for Yarn Evenness Accounts for Chance Factor":

(1) I agree with the reviewers that cotton fiber fineness changes as some fibers are removed as waste during processing. For the purpose of my formula, however, the effect of this is negligible (as per the reviewers' own example).

(2) The article did not propose that the effects of fiber length, maturity, etc., could be evaluated by a simple formula. My formula does, however, show the important element of chance variations in its effect on yarn evenness. To this end, only fiber fineness and yarn count spun are required. All other factors become negligible.

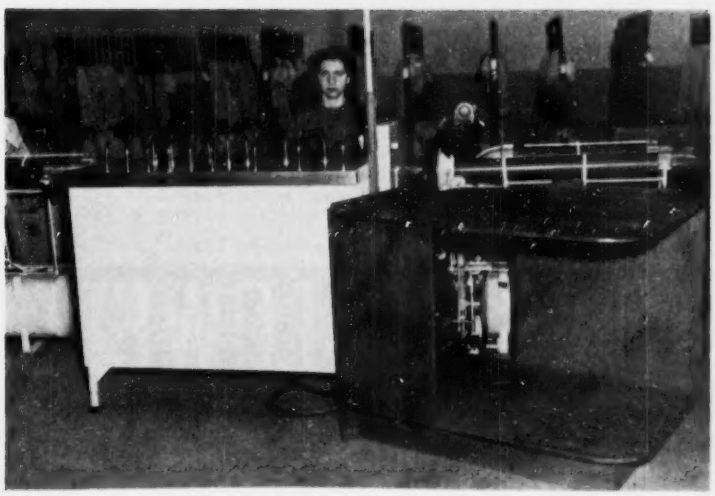
(3) In checking my mathematics, the reviewers introduce a new formula (taken from standard texts) which is not applicable in this instance, where we are dealing with fiber distributions in yarn. Such distributions are generally skewed or "Poisson," while the reviewers' formula assumes a so-called "normal" distribution. Any reader who refrains from using the reviewers' formula will therefore not find, as they did, that the results "jump all over the place for no apparent reason."

Now a word on the practical usefulness of the formula. I have found an increasing number of mills who apply it in their quality control work. Also the Uster Corporation recommends it in their latest instruction manual to users of their equipment. A similar adapted formula was recently worked out by the author for use with the ITT-Brush Uniformity Analyzer.

I cannot find anything wrong with the formula or method shown in the original article, from either a theoretical or practical mill-use angle.

N. L. ENRICK

Inspection Tray Stands Save Labor



EDITOR TEXTILE INDUSTRIES:

The Ammon automatic inspection machine has a capacity up to 270 dozen pairs of hosiery in eight hours, which illustrates the advances that have been made in hosiery inspection equipment in the past few years. However, the tray platform holds only two trays at a time, and this high production necessitates almost constant attendance unless additional platform space is furnished for extra trays of goods to be inspected.

The auxiliary tray stand shown in the accompanying illustration solved the problem in our full-fashioned hosiery mill. The stand is

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31½" high which makes it level with the tray platform when elevated. Full trays can be easily pushed over to the platform for inspection. The stand is 27" across the top, and 40" long. The corners farthest from the inspector are rounded.

The end closest to the inspector is closed, and the front side shown in the illustration has an 18" panel only. This makes it easy to place four trays in the bottom part, and four trays on top of the stand, with two full trays on the machine tray platform. Ten trays of hosiery to be inspected represent about four hours inspector production, which eliminates attendance by another person for that period of time.

The stands are constructed of ½" plywood, and this has proved satisfactory in our plant over a period of several years. The side of the stand is parallel with the machine platform for practical use and forms an angle with the inspection machine cabinet, but this is no disadvantage. The trays are delivered to the inspector from the front (illustrated) which prevents damage to any precision equipment located beside the inspector. The tray stands save labor, help increase production, and are simple and inexpensive to construct.

CONTRIBUTOR No. 8654

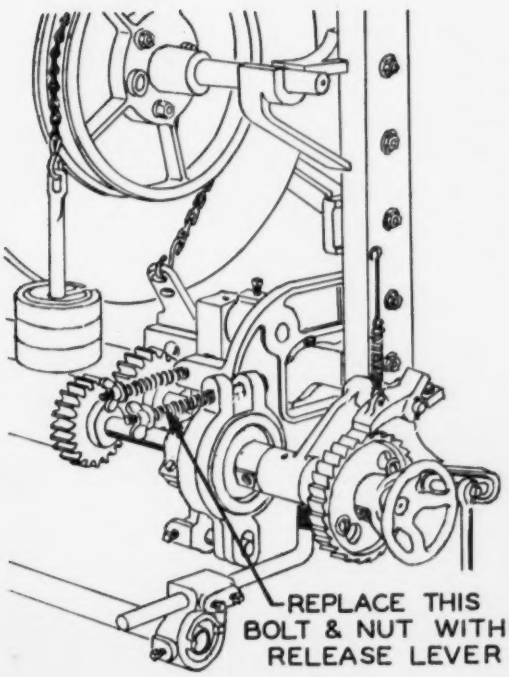
Quick Release for Friction Drum Clamp on C&K Terry Towel Looms

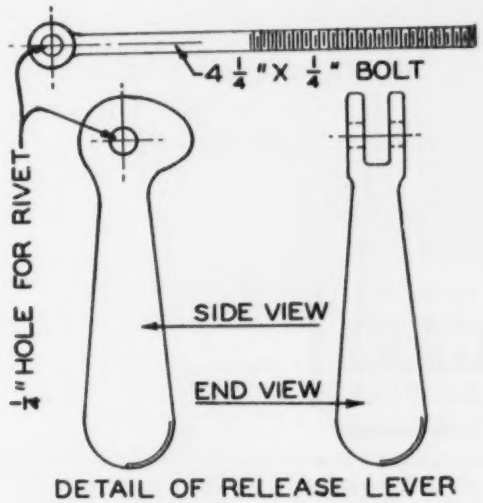
EDITOR TEXTILE INDUSTRIES:

On Crompton and Knowles C5 looms for terry towels, the top beam friction drum clamp is adjusted with a wing nut. When the top beam is to be pulled back this wing nut must be unscrewed, an unhandy job for the weaver and one which consumes too much time for subsequent adjustment.

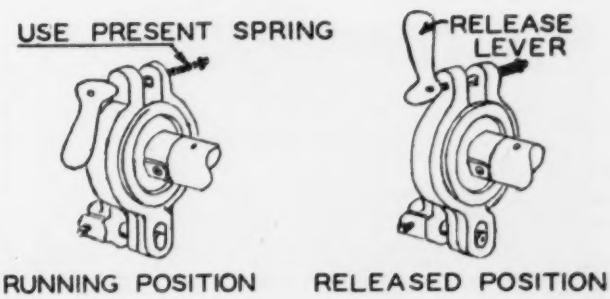
A quick release can be made for the friction drum clamp. This release replaces the wing nut and bolt as shown in the accompanying illustrations. The release is made of cast iron and can be made at the local foundry at small cost. We have found this release a great time-saver for the weaver.

CONTRIBUTOR No. 8660





DETAIL OF RELEASE LEVER



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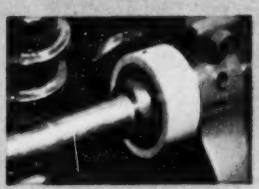

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From Precision only, standard or special cams with exclusive Slough Guard features - filling or warp wind. Less operating cost, more production, better performing bobbins.

WEAVING

Loom Take Up Roll bearing eliminates shaft rebuilding, holds a setting indefinitely, requires no lubrication. This is one of nearly 30 PRECISION-Exclusive ball bearing units for a Rebirth of Life to old looms.

WRITE FOR BULLETINS OR PHONE 4-6857

★

PRECISION

ENGINEERED TESTED

GEAR AND MACHINE CO.

2001 North Tryon St., Charlotte, N. C.

CAMS · CHAIN DRIVES · GEARS · BEARINGS

Reiner Full-Fashioned Sweater Knitter

(Continued from page 151)

Features of the fully automatic machine are:

(1) Gauges: 12, 15, 18, 21, 24, 27;
(2) Fully automatic V-neck attachment;
(3) Fully automatic fashioning movements (automatic carrier and spindle control);
(4) Four yarn carriers, with provisions for two more as extra equipment;
(5) Four transfer bars per machine and stand;
(6) ¾ hp two-speed electric motor and switches for standard U. S. current;
(7) Automatic changing from high to low speeds;
(8) Four narrowing fingers per section;
(9) Positive knocking-over (individually slotted);
(10) Individually slotted needles;
(11) Constant yarn carrier lead;
(12) Automatic stops at any selected point;
(13) Spindle safety stop;
(14) Single Couliering;
(15) Chain setting safety stop;
(16) Back stop safety;
(17) Two stitch regulators;
(18) One loose course regulator.

It is possible to produce all three garment sections on a single machine, though the sectional method is deemed more economical.

Robert Reiner, Inc., 550-64 Gregory Ave., Weehawken, N. J.

For additional data, request item D-101, using Handy Return Card on page 260.

NEW Equipment AND MATERIALS

Other items are described on pages 147, 149, 151

Ring Oiling Improved on Model F Wool Spinning

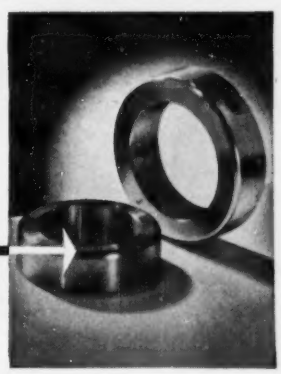
→ *See it in Atlantic City*

Rings of new Model F wool spinning frames are lubricated by the gravity feed system shown in the accompanying photo, rather than by an oil bottle suspended beneath the ring rail which had to be kept full at all times in order to provide adequate lubrication.

By using the special oil reservoir located at the rear and above the ring rail a constant regulated downflow of oil is assured. This system employs a tank, pipe line, and a constant level valve. The valve is so arranged that

standardize on standard

HALLOWELL®
SOLID STEEL COLLARS



now size-marked for easy identification

42 stock sizes—each marked with shaft diameter for easy identification—are now available at your HALLOWELL distributors'. And these precision machined solid steel collars—in sizes from 3/16" to 3" inclusive—have the famous self-locking UNBRAKO Socket Set Screw to assure positive positioning on the shaft.

Write for literature and the name of your nearest HALLOWELL distributor. STANDARD PRESSED STEEL Co., Jenkintown 34, Pa.

HALLOWELL POWER TRANSMISSION DIVISION

SPS
JENKINTOWN PENNSYLVANIA

New Improved
HEANIUM®
CONING GUIDES
*Patent Pending

Look for us in Booth 5 . . .
at ATLANTIC CITY

Southern Representative
Ralph Gossett & Company
Greenville, So. Carolina

HEANIUM — *the best guide to lower costs.*
HEANY INDUSTRIAL CERAMIC CORP. New Haven 3, Conn.

HOLDSWORTH
Top Quality Features:

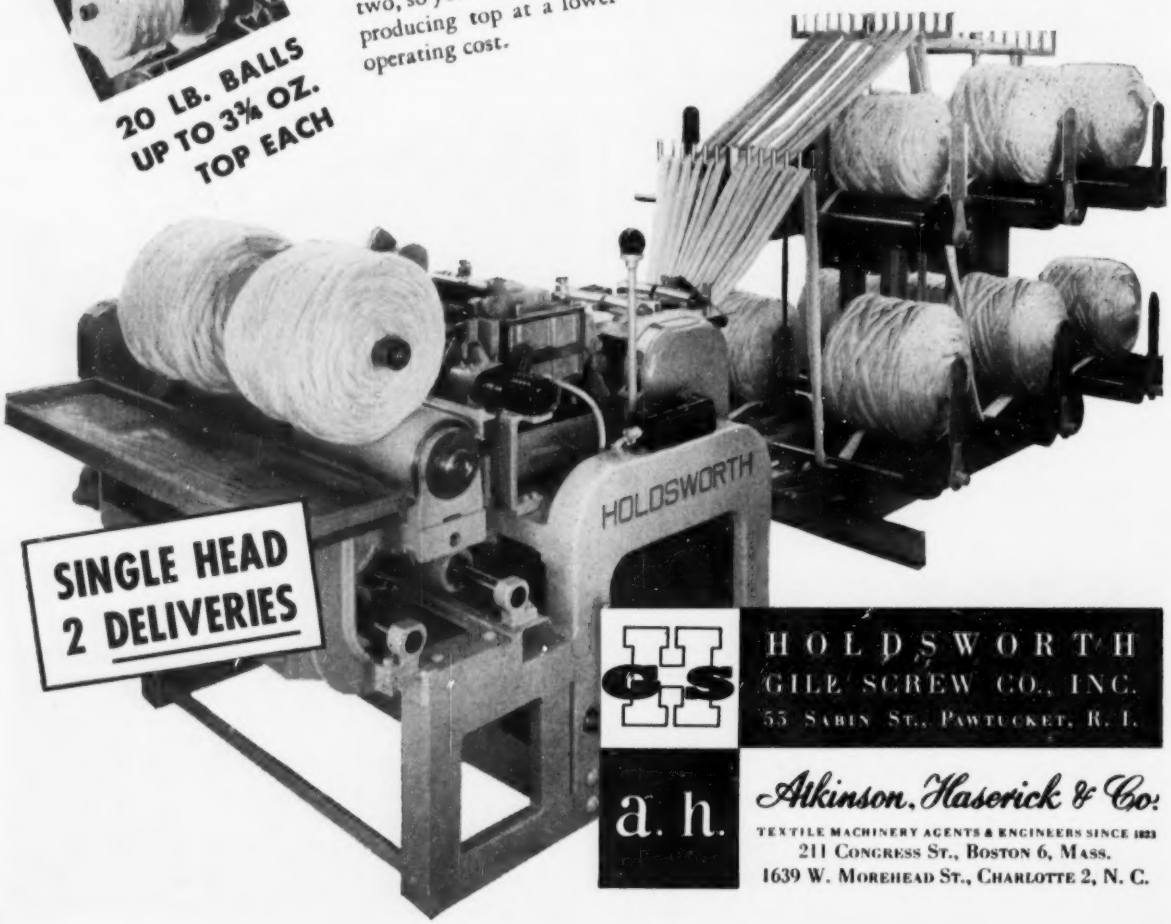
LOWER FRAME With the front and drawing off rolls of the new Holdsworth Balling Head Gill Reducer exposed to view at a height of only 41", the top in process is visible at a glance. An operator seeing the progress of every end, experiences less tension and handles more work.

LOWER MAINTENANCE Holdsworth parts are interchangeable and require no fitting. Simplicity of design reduced the number of parts and low, open construction makes them accessible for cleaning.

This Gill Reducer was developed by worsted men at the Holdsworth Gill Screw Co., America's oldest maker of gilling machinery. In conjunction with Atkinson, Haserick & Co., we offer a complete and unequalled service for all worsted or worsted type operations. May we serve you?

LOWER COST By taking two sets of ends through one head, maximum use is made of the machinery. One head costs less than two, so you conserve capital while producing top at a lower operating cost.

20 LB. BALLS UP TO 3¾ OZ. TOP EACH



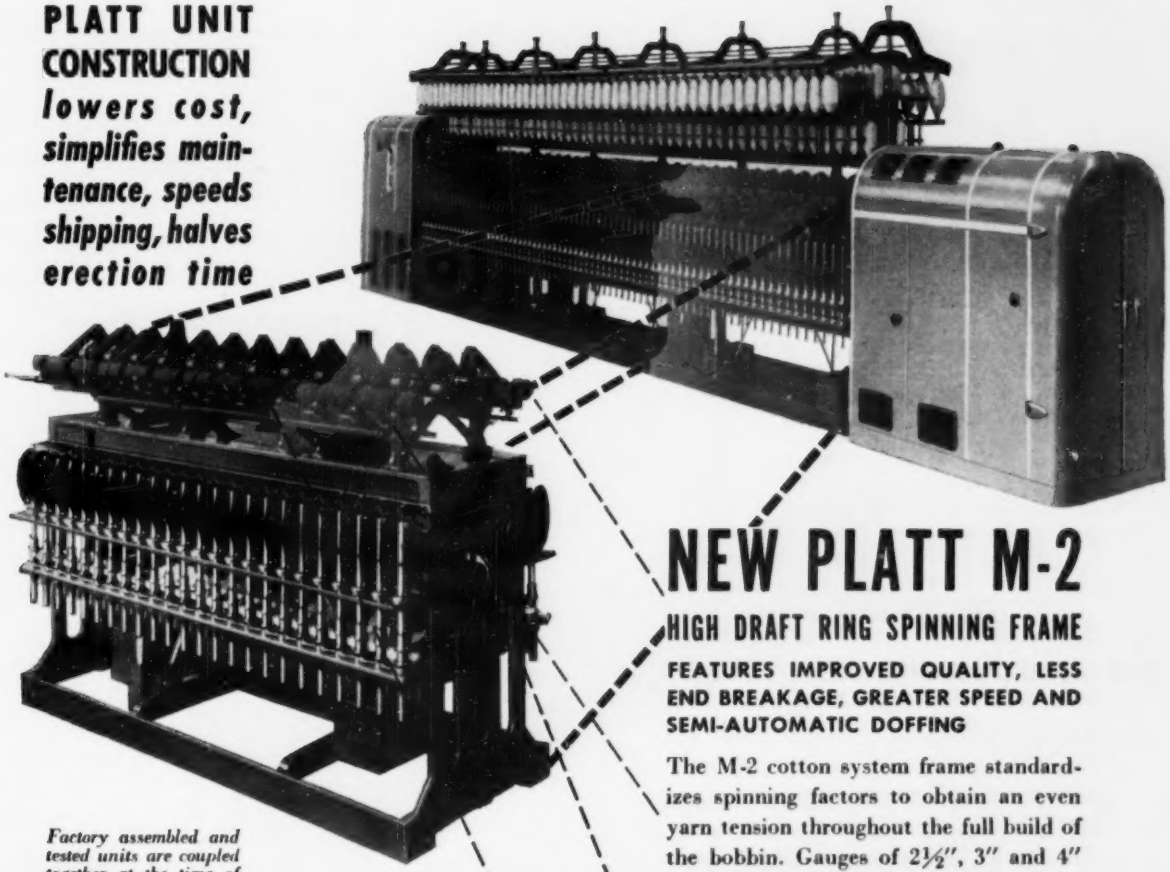
SINGLE HEAD 2 DELIVERIES

HOLDSWORTH GILL SCREW CO., INC.
55 Sabin St., Pawtucket, R. I.

a. h.

Atkinson, Haserick & Co.
TEXTILE MACHINERY AGENTS & ENGINEERS SINCE 1823
211 Congress St., Boston 6, Mass.
1639 W. Morehead St., Charlotte 2, N. C.

PLATT UNIT CONSTRUCTION *lowers cost, simplifies maintenance, speeds shipping, halves erection time*



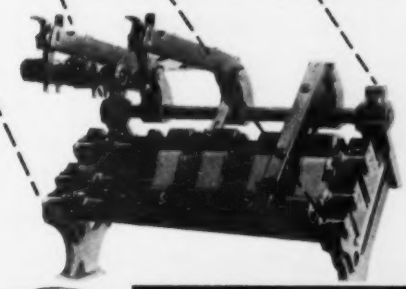
Factory assembled and tested units are coupled together at the time of erection

NEW PLATT M-2

HIGH DRAFT RING SPINNING FRAME

FEATURES IMPROVED QUALITY, LESS END BREAKAGE, GREATER SPEED AND SEMI-AUTOMATIC DOFFING

The M-2 cotton system frame standardizes spinning factors to obtain an even yarn tension throughout the full build of the bobbin. Gauges of 2½", 3" and 4" are provided for rings of 1¾" to 3" diameter, with lifts from 5" to 12".



THE NEW PLATT TOP APRON drafting system is neat, clean and uncomplicated. It is highly flexible with only minor adjustments. Yarn spun with a draft of up to 50 is equal in strength and regularity with yarn spun with lower drafts. A short apron, working over a large second line bottom roller, holds the fibers in a definite path as they are not subjected to the undulations of two aprons. The Pneumafil System is built into each unit.

HEADSTOCK houses the twist and draft gearing, all mechanical and electrical controls and the builder motion that is self-acting, not requiring resetting on the completion of the packages.

PLATT BROS.

SALES LTD. OLDHAM, ENGLAND

a. h.

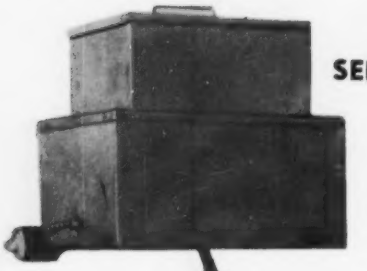
Atkinson, Haserick & Co.

TEXTILE MACHINERY AGENTS & ENGINEERS SINCE 1823

211 CONGRESS ST., BOSTON 6, MASS.

1639 W. MOREHEAD ST., CHARLOTTE 2, N. C.

DOFFING IS SEMI-AUTOMATIC as individual motors automatically set-up the frame for doffing. The operator just replaces the full package with an empty bobbin or tube. How many man-hours could this conserve in your mill?



SEE IT AT THE

ATLANTIC CITY SHOW

THE YEAR'S MOST TALKED-OF

INNOVATION IN SLASHING!

See it in BOOTH NO. 918

THE AFTER-WAXING ROLL
Used With

SEYCO

SYNCOTE S

MILLS ARE OBTAINING ASTOUNDING IMPROVEMENTS IN WEAVING EFFICIENCIES!

IN ACTUAL MILL USE for over one year on dacron and other synthetic warps, now being applied to cottons and rayons, SEYCO SYNCOTE S is bringing smiles to many a weaver's face. Applied as an after-wax between the drying section of the slasher and the loom beam, SEYCO SYNCOTE S is where a lubricant is most needed on the surface of the warp yarns.

Talk with us at the ATLANTIC CITY SHOW—
or write or 'phone for information.

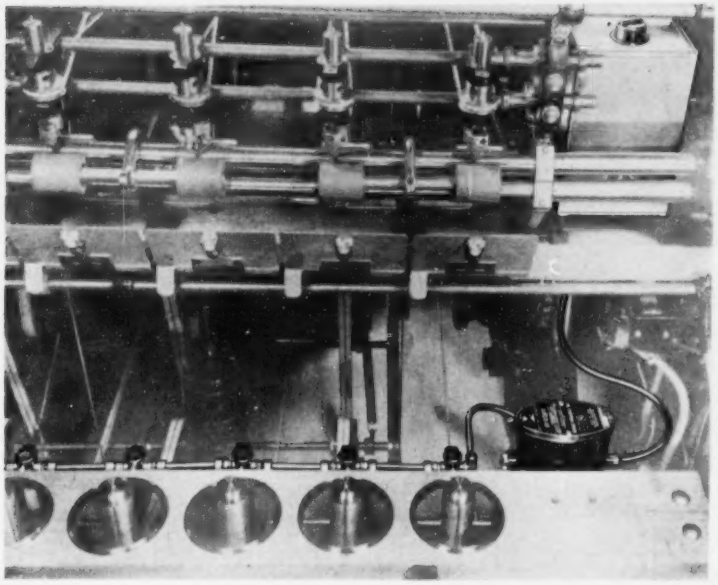
SEYDEL-WOOLLEY & CO.

TEXTILE CHEMICALS

748 RICE STREET • ATLANTA, GA.

SEYCO

PENETRANTS • SIZING • SHUTTLE DRESSING • SOFTENERS • ALKALIS
• TWIST SETTER MACHINES •



How new Davis & Furber Model F wool spinning rings are lubricated.

the oil level can easily be raised or lowered in the ring reservoirs.

The Eadie type of ring which has the wicking on the inside is preferred with this system of lubrication.

Davis & Furber Machine Co., North Andover, Mass.

For additional data, request item D-112, using Handy Return Card on page 260.

NEW Equipment AND MATERIALS

High Speed Mixers for Dye and Pigment Dispersions

→ *See it in Atlantic City*

The Hermas Machine Company has acquired the rights to manufacture the "Jet" mixers developed by the consulting chemist and chemical engineer, David E. Gould, formerly vice-president of the Barrington Engineering Company.

The "Jet" mixers have been developed for the efficient wetting out and deflocculation of dye and pigment dispersions in liquid carrying vehicles in wide range of viscosities from water thin up through 30,000 centipoise. These are portable type, high speed turbine mixers for mixing in tanks, barrels, drums, and kettles, operating at peripheral velocities along the circumference of the rotor in excess of 70 ft/sec.

Exceptionally fine particle size reduction is obtained as the result of this high peripheral velocity. The "Jets" are precisely engineered and constructed to permit long operating

We'd like you to meet the Gauthiers, a father and son team in our forging department here at DIAMOND FINISH. People like "Coke" and Ken, who take pride in doing an extra good job, are a vital reason why our rings have a built-in "extra something" that guarantees satisfaction to our customers.

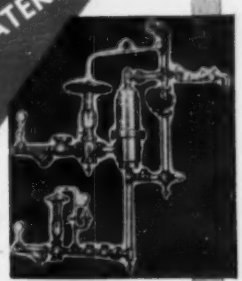
WHITINSVILLE (MASS.) SPINNING RING CO.

DIAMOND FINISH

Makers of Spinning and Twister Rings since 1873

Southern Representative: W. K. SHIRLEY, 25 Oak St., Belmont, N. C.

Insist on Pick INSTANTANEOUS HOT WATER HEATERS



SAVES MONEY IN ALL TEXTILE WET PROCESSING

IN DAILY USE at . . .

Bates Mfg. Co.
Exeter Mfg. Co.
Pepperell Mfg. Co.
Fieldcrest Mills
Dan River Mills
Pendelton Woolen Mills
and many others.

PICK GIVES YOU MAXIMUM EFFICIENCY

★ *Water Is Heated INSTANTLY* by steam injection. Fuel savings are substantial because there is no waste — water is heated only as used.

★ *Pick Heaters Maintain Continuous Flow* at preset temperature for bleaching, dyeing, scouring, etc.

★ *Safe, Quiet Operation.* Exclusive "Pressurizer Piston" assures maximum safety and eliminates hammer, noise and vibration on continuous or "start and stop" loads.

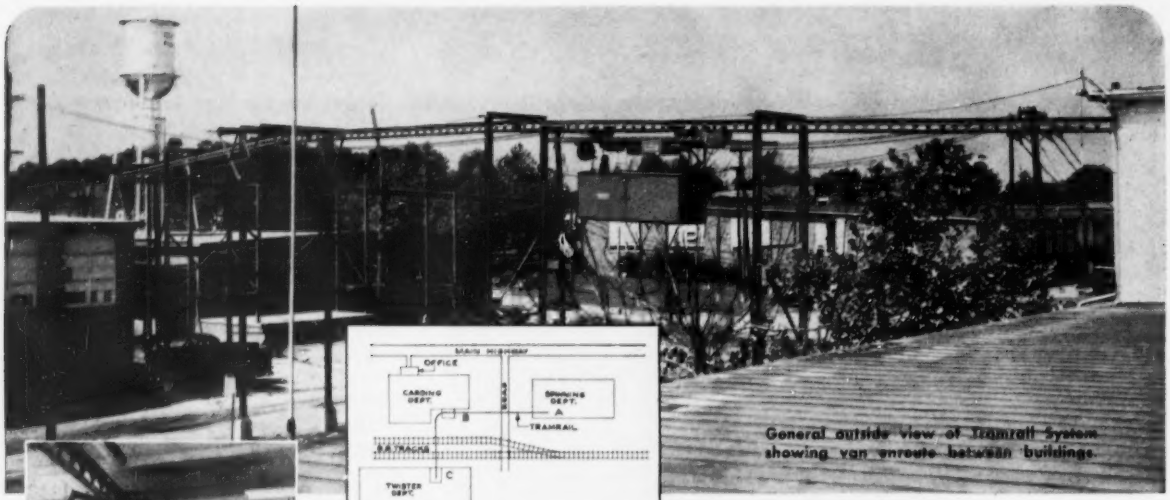
★ *No Storage Tanks Required.* Pick Heaters are compact — can be installed in corners, on walls or overhead. Saves valuable floor space.

★ *Many Other Cost-Reducing Advantages.* Maintenance cost is remarkably low because Pick Heaters can be cleaned in a matter of minutes. Installation is simple and inexpensive . . . only ordinary pipe connections are required.

Write Dept. T1154 for booklet on how Pick Heaters cut costs of hot water. No Obligation.

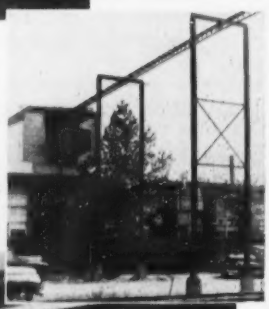
PICK MANUFACTURING CO.
WEST BEND, WISCONSIN

STEAM INJECTION



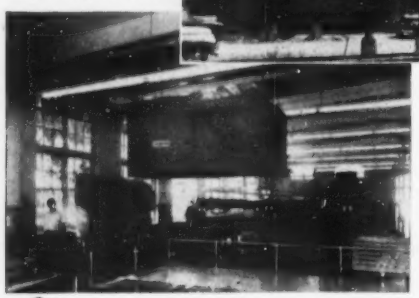
General outside view of Tramrail System showing van enroute between buildings.

Integrates Three Separate Mills *Into One Efficient Plant* With Automatic Handling System



Loading four truck loads of spools and bobbins into van in Spinning Department.

Van entering penthouse on roof of Twister Department.



Starting load on way by depressing wall button.

In South Gastonia, N. C., Textiles, Inc. took over three mills, now known as Pinkney Mills, which are separated by a street and a railroad and which had been operated in the past as wholly separate mills. To integrate the operations, it installed a Cleveland Tramrail automatic dispatch system to carry materials between the buildings. This made it possible to concentrate on carding work in one building, spinning in another, and twisting in the third. Roving is dispatched from the Carding Department to the Spinning Department, and bobbins, spools and cheeses of yarn made in the Spinning Department are dispatched to the Twisting Department over the Tramrail system.

The handling work requires no extra help because it can be done quickly by people in the three buildings along with their regular work. All that is necessary is to push trucks in and out of the Tramrail van, close the van doors and press a button which starts the unit on its way.

Rain or shine, the system works without complaint. It connects with floors at different elevations and travels up and down grades over street and railroad. When the van reaches its destination, it lowers at once and stops automatically.

Management advises that the savings effected by use of the automatic dispatch system will pay for the equipment within a short period.

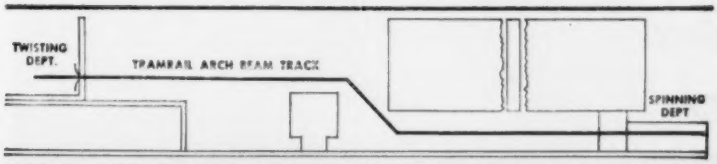
GET THIS BOOK!

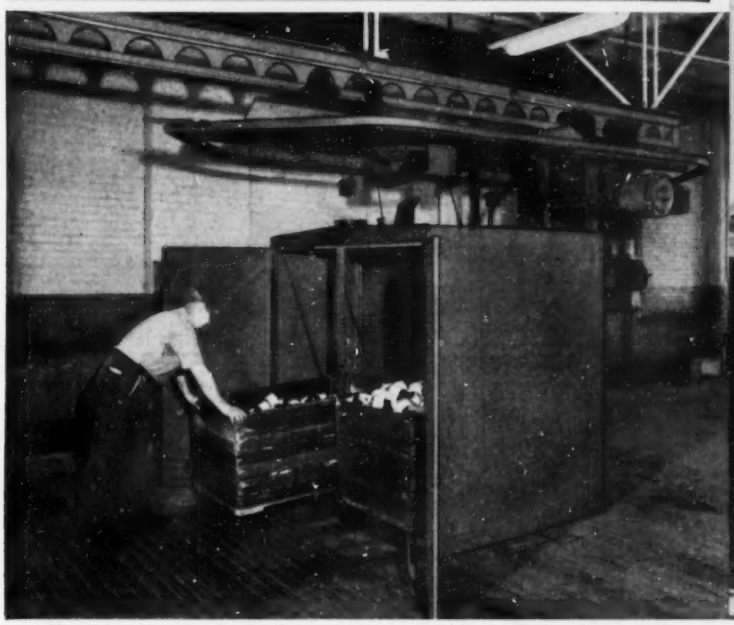
BOOKLET No. 2008. Packed with valuable information. Profusely illustrated. Write for free copy

CLEVELAND TRAMRAIL DIVISION
THE CLEVELAND CRANE & ENGINEERING CO.
2877 EAST 287 STREET, WICKLIFFE, OHIO

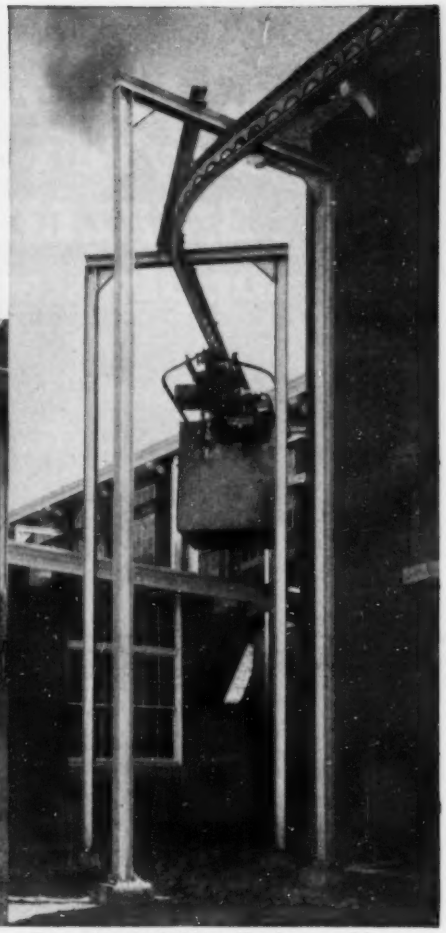
CLEVELAND TRAMRAIL
OVERHEAD MATERIALS HANDLING EQUIPMENT

$15,000 AUTOMATIC DISPATCH SYSTEM





The carrier operates only after the van doors are closed firmly. Then pushing a button starts it on its way. Building doors are opened and closed automatically. When the carrier reaches its destination, it simply stops and remains in place until loaded or unloaded. Depressing a button returns it to the other building.



Enroute between buildings. Note how out-of-the-way space that ordinarily is unusable for any purpose serves as a satisfactory right-of-way for an automatic Tramrail system.

PAYS FOR ITSELF IN FIFTEEN MONTHS

Big savings almost invariably follow the installation of a Cleveland Tramrail automatic dispatch system. This holds true for the installation at Erlanger Mills, Inc., Lexington, N. C. Because of time saved, the entire cost of the equipment was paid for in less than fifteen months. But this was not the only saving. Savings in a year from elimination of truck wear on the floors are estimated to amount to as much as the cost of the system.

The system handles boxes of bobbins from the spinning department on the first floor of one building to the twisting department on the second floor of another building. The vast amount of tedious manual trucking formerly required has been eliminated. Regardless of weather condition, season of year, or time of day or night, the automatic system hauls its loads unhampered. No men are needed especially for this work since men in both buildings can take care of the simple task of loading and unloading the Tramrail van along with their regular work.

GET THIS BOOK!

BOOKLET No. 2008. Packed with valuable information. Profusely illustrated. Write for free copy

CLEVELAND TRAMRAIL DIVISION
THE CLEVELAND CRANE & ENGINEERING CO.
2880 East 287 Street, Wickliffe, Ohio

CLEVELAND TRAMRAIL
OVERHEAD MATERIALS HANDLING EQUIPMENT

Because the smallest supply item affects every spindle it offers widespread opportunities . . . to improve spinning, lower end breakage, reduce waste and to upgrade quality. Worn rings as well as new rings, larger packages, higher speeds, new fibres, blends — changes like these are usually the signal for traveler changes.

Here is where Service and Quality come before price considerations. U. S. representatives possess the know-how and mill background to be of real, constructive assistance in helping you run good spinning.

Finding just the right traveler for every need is not always easy. But the millions of spindles running U. S. Travelers are good proof of the fact that we stick with the problem until our customers are happy with their results.

Can we be of assistance? Call on us, count on us.

We welcome the opportunity to serve, and we appreciate your goodwill.

U. S. Representatives are at your service.

W. P. Vaughan, W. H. Rose
Greenville, S. C. — Box 1048 — Phone 3-0915

O. B. Land
Athens, Ga. — Box 1187 — Phone 478

L. H. Mellor, Jr.
Mid-Atlantic States, 123 Treaty Rd.
Drexel Hill, Pa. — Phone Hilltop 6-1563

H. R. Fisher
Concord, N. C. — Box 83 — Phone 2-8930

H. J. Smith
Providence — Box 1187 — Phone Gaspee 1-0100

U. S. RING TRAVELER CO., 159 Aborn St., Providence, R. I.
Southern Warehouse: Greenville, S. C.

A Style and Size for Every Yarn and Fibre

Packaged to Arrive

and Keep Perfectly

life at maximum speed, and are so designed that all necessary repairs may be facilitated with a minimum of loss of time and expense.

Hermas "Jet" mixers are made in laboratory, pilot plant, and production sizes.

The Hermas Machine Co., Hawthorne, N. J.

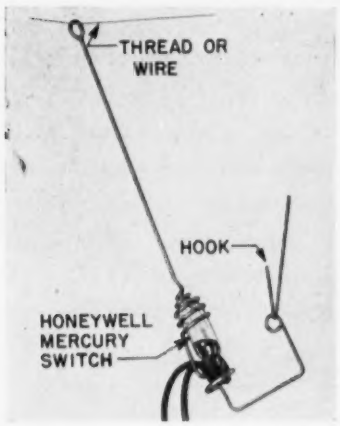
For additional data, request item D-216, using Handy Return Card on page 260.

Mercury Switch Type Thread Break Detector

→ *See it in Atlantic City*

A new mercury switch thread break detector, designed especially for textile machinery, incorporates a mercury switch assembled in a wire form actuator.

The thread travels through an "eye" on the end of the actuator. When the thread breaks, the device drops, opening the electrical circuit



to stop the machine, or closing the circuit to an alarm. The complete seal of the mercury switch provides protection against lint, dust or fire.

Micro Switch, a division of Minneapolis-Honeywell Regulator Co., Freeport, Ill.

For additional data, request item D-107, using Handy Return Card on page 260.

Versatile Pilling Tester

A pilling tester designed by personnel of E. I. duPont de Nemours & Co., Inc., is now being manufactured and marketed. It utilizes a circular rubbing motion to produce pills.

The instrument consists of a table which is driven by a ratiomotor and a jack shaft at approximately 56 rpm and a ¾" radius. Two rubbing surfaces are provided, one is with cellulose sponges and the other is with a nylon brush.

The tester can be used as a control tester for fabrics in commercial production, as a research tool in development of new fabric constructions, and in studying various manufacturing processes.

Custom Scientific Instruments, Inc., P. O. Box 170, Arlington, N. J.

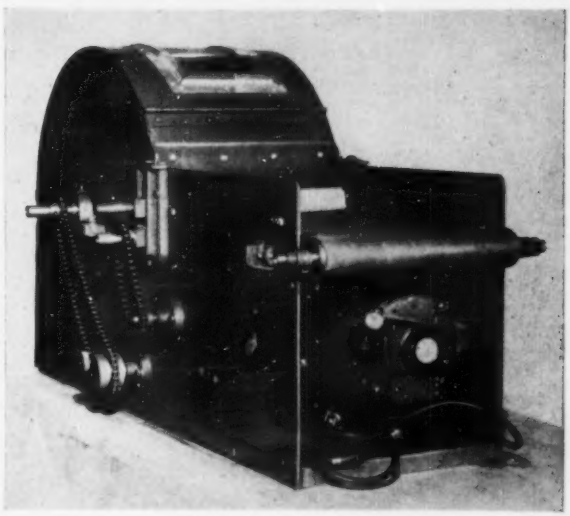
For additional data, request item D-214, using Handy Return Card on page 260.

NEW Equipment AND MATERIALS

New Product for Water Repellency

Hartuwet S imparts a durable water repellent finish to rayon blends, cotton, nylon, acetate, wool, Dacron, and Orlon fibers. It is a very stable milk-white silicone emulsion

LABORATORY TEST BLENDER



Test multiple blends of fibers for:

1. Color
2. Fiber Length
3. Fiber Strength
4. Maturity
5. Product Character

Percentage blends of any number of samples can be perfectly blended to be processed in the laboratory to accurately predict the characteristics of the end product desired before processing through the mill.

For Quality and Cost.

Manufacturers of Quality Blending, Cleaning and Opening Equipment

FIBER CONTROLS CORPORATION

BOX 351

GASTONIA, NORTH CAROLINA

Parks-Cramer
Loom Cleaner

What it is . . .

Blowers in tandem traveling continuously over the looms.

Simple track system, located at looms, leaving upper room areas clear.

Non-loading, paddle type fans.

Air currents directed close to loom surfaces.

Fixed and oscillating air outlets, individually adjustable for direction and velocity, with flexible extensions.

What it does . . .

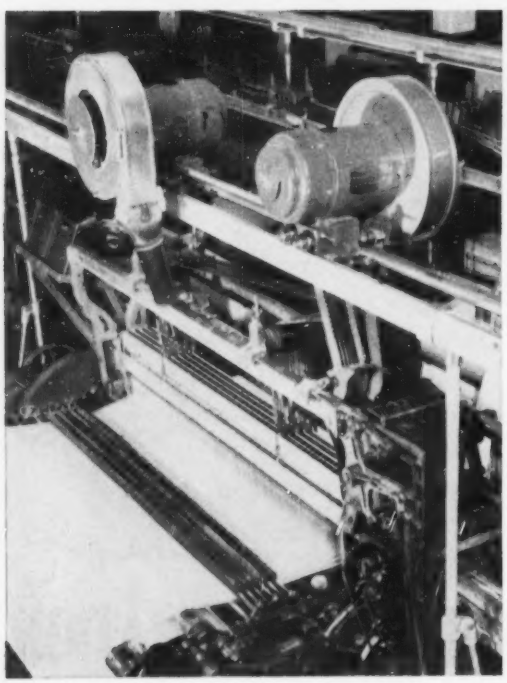
Passes over each loom every five to ten minutes.

Delivers air currents onto arch, harnesses, drop wires, stop motions, transfer motions, harness motions, lay, shuttle boxes, beam, yarns and fabric.

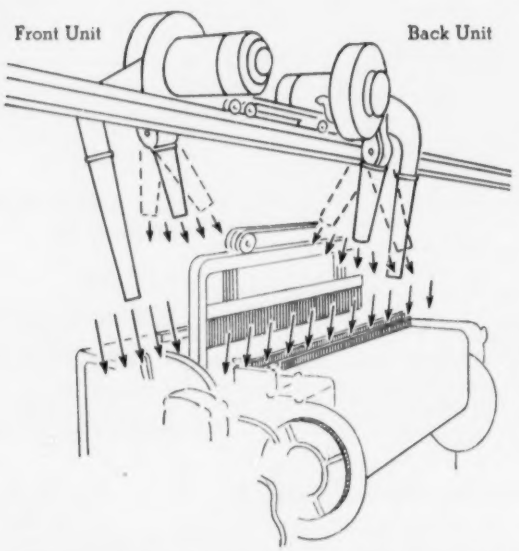
Prevents objectionable lint accumulations between warp-outs.

Eliminates most hand cleaning by compressed air. Lessens loom stops. Increases production.

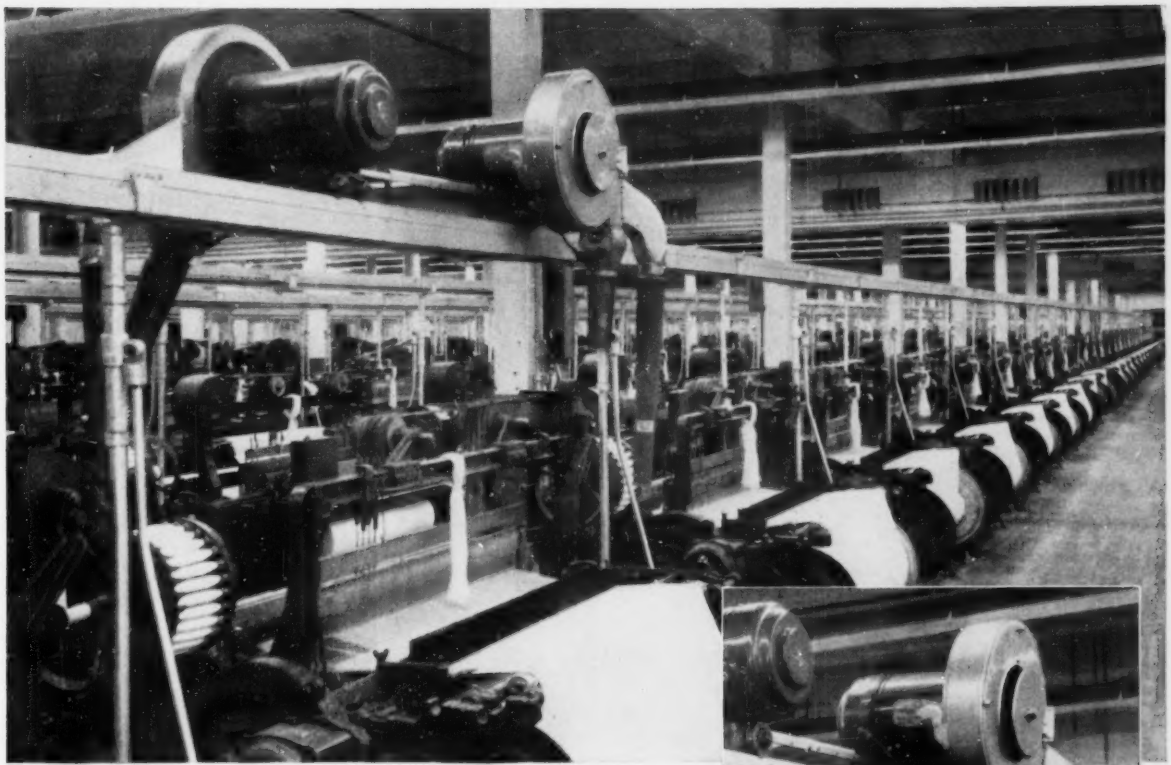
Greatly reduces woven-in lint, oil spots, set and start-up marks, skips, floats, and pick-outs.

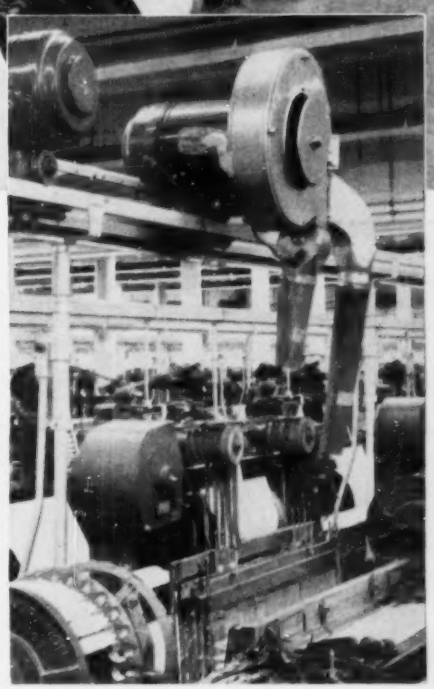


An early installation of Parks-Cramer Loom Cleaners over dobby looms on staple rayons. 65% humidity. No direct humidifiers. Continuously successful for over three years. Pays for itself every eighteen months in labor saving alone.



Air where you want it! Long impregnated cloth air outlets on each unit are fixed. Short impregnated cloth air outlets on each unit oscillate back and forth through adjustable arcs as indicated. Provision for momentary reduction of air from any outlet when passing over critical areas. Safe, rugged track system, largely self-cleaned. No exposed electric conductors.





Loom Cleaners over cotton weaving. 80% humidity. Direct humidifiers and Airchanger. Excellent results. Mill enthusiastically reports 1½% increase in weave room efficiency, 2% less seconds. In addition, system pays for itself every two years in labor saving.

After several years' extensive experience with mill installations made by our development department, we have sold this equipment to fourteen mills and completed eleven of these installations.

In accordance with our long-time policy, all possible has been done to make certain of both mechanical performance and cleaning effectiveness under the widely varying conditions of mill and product.

We now believe we are in a position to clean most cotton and cut synthetic weaving ranging from print cloths woven under high humidity on older looms to fine goods turned out by plain and dobby looms at lower humidities.

For further information and recommendations concerning installation in your weave room, consult

Parks-Cramer Company

FITCHBURG, MASS. CHARLOTTE, N. C. ATLANTA, GA.

instantly dispersible in water.

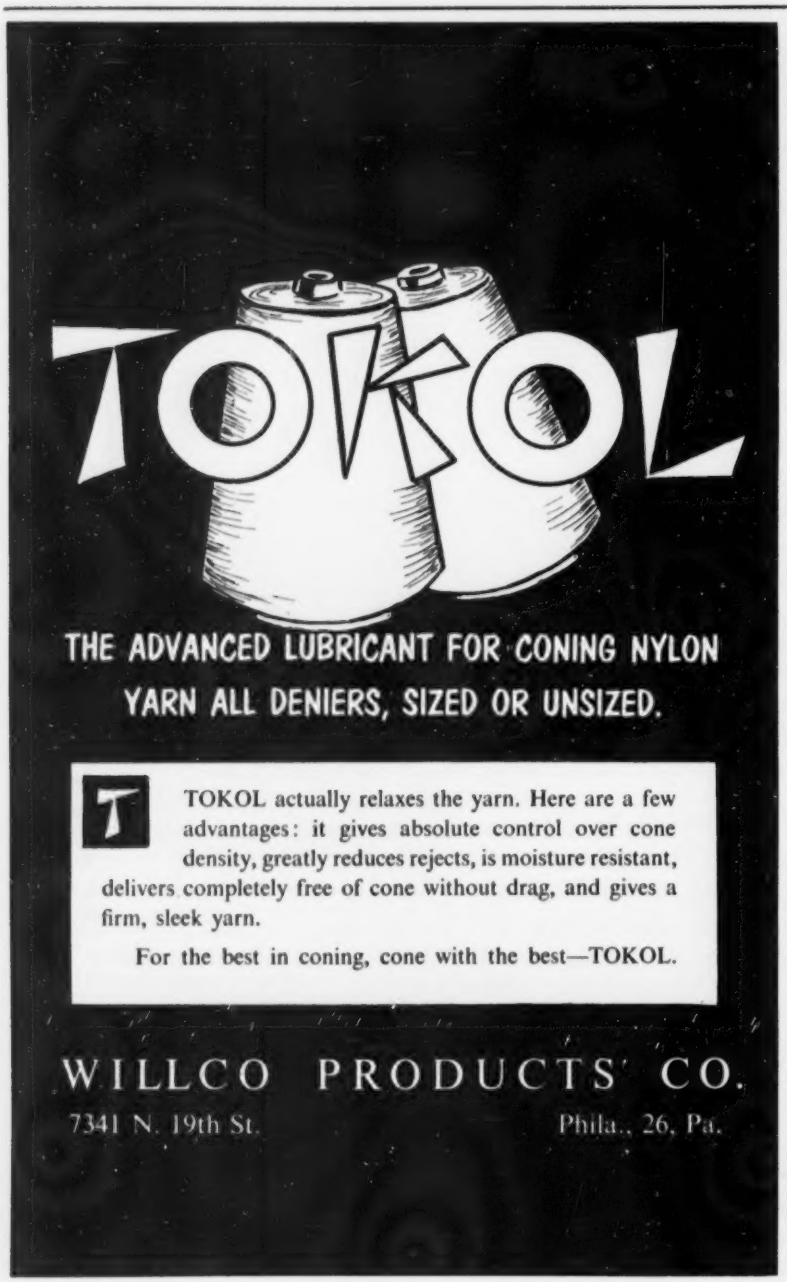
Fabrics treated with this new product are said to show likewise an increase in abrasion resistance up to fourfold, a greater tear strength, a marked improvement in sewability, a greater recovery from wrinkling, and an improved crisp resilient hand as well as spot and stain resistance.

Hartuwet S may be used in combination with the commonly used urea formaldehyde, melamine formaldehyde, and other resins. No disagreeable odors are developed in the course of application, drying, or curing. In addition, no after-wash is necessary when the new product alone is used.

It is easily applied from the usual padding equipment and is cured in the conventional tenter frame.

Hart Products Corp., 1440 Broadway, New York, N. Y.

For additional data, request item D-212, using Handy Return Card on page 260.


TOKOL
THE ADVANCED LUBRICANT FOR CONING NYLON YARN ALL DENIERS, SIZED OR UNSIZED.
T
TOKOL actually relaxes the yarn. Here are a few advantages: it gives absolute control over cone density, greatly reduces rejects, is moisture resistant, delivers completely free of cone without drag, and gives a firm, sleek yarn.
For the best in coning, cone with the best—TOKOL.
WILLCO PRODUCTS' CO.
7341 N. 19th St.
Phila., 26, Pa.

Counter for Use Where Cycle Is Repeated and Production Total Needed

→ *See it in Atlantic City*

A new Trumeter automatic resetting predetermined electro-magnetic machine with totalizer has two counters, one being a predetermined counter, the other a totalizing counter.

In operation, the predetermined counter is set to the required figure, and each time this figure is reached, the counter is automatically and

gently reset to the preset figure by a motor-driven arrangement. This cycle is repeated until the predetermined figure is changed.

The machine is most convenient where a cycle is repeated and where total production is to be known.

Switches for making or breaking contacts at the end of each cycle to give signals or stop motors are provided.

Trumeter Co., 1265 Broadway, New York 1, N. Y.

For additional data, request item D-105, using Handy Return Card on page 260.

Novel Yarn Produced by Fluffing Filament Thermoplastic Yarns

Commercial production of Fluflon, a unique yarn produced by permanently fluffing continuous filament thermoplastic yarns to create nylon fluff, Dacron fluff, Orlon fluff, and other fluffed thermoplastic yarns, has been announced.

Fluflon bears no resemblance to continuous filament yarn from which it is produced. Rather it possesses a soft hand, a foam-like appearance, and extensive elasticity and cover-

aim for beauty *and fastness*
with
*Amacel
acetate colors

You're in good company when you specify the AMACELS, for leading acetate dyers and printers have rated these famous colors tops in quality and fastness ever since they were introduced. Available in a popular range of colors for dyeing all types of acetate textiles and fibres, A.A.P. AMACELS offer outstanding fastness to light, gas fading, sublimation and decatizing.

A trial run will demonstrate their consistent purity of shade . . . excellent "pile on", [illegible] application. You'll find the AMACELS suitable for piece dyeing (both [illegible] acetate yarn and Nylon hosiery dyeing, as well as for screen or machine printing.

For a working sample, or help with any acetate color problem, just get in touch with our nearest branch. A.A.P. technicians will be happy to serve you at any time.

[illegible]

AAP
AMERICAN ANILINE PRODUCTS, INC.

[illegible] Union Square, New York 3, N. Y.
[illegible]nt: Lock Haven, Pa.

[illegible]ches: Boston, Mass.
[illegible]vidence, R. I. • Philadelphia, Pa.
[illegible]terson, N. J. • Chicago, Ill.
Charlotte, N. C. • Chattanooga, Tenn.
Columbus, Ga. • Los Angeles, Cal.

Dominion Anilines & Chemicals, Ltd.
Toronto, Canada • Montreal, Canada

Ingenious engineering brings you a drastic investment saving with proven Hartford spindles. These new spindles feature an improved [illegible]—which contains the same precision [illegible] gear—and the same pre-lubricated, [illegible] mounted ball bearings. With Hartford you eliminate spindle oiling. No attention is needed for an estimated 5 years. Yarn and floors are kept cleaner. Smoother running at high speeds is coupled with power reduction.

Examine and test this advanced new Hartford spindle in your own plant. Simply write our nearest office.

Ingenious new assembly features split-sleeve construction.

See us at Booth 602

TEXTILE MACHINERY AMERICAN EXHIBITION ASSOCIATION

HARTFORD MACHINE SCREW COMPANY, INC.

HARTFORD 2, CONNECTICUT
110 WEST McBEE AVENUE, GREENVILLE, S. C.

age. One of the outstanding features of Fluflon resides in its uniformity from start to finish of each package, from package to package, and from lot to lot. This controlled uniformity, made possible by its novel processing, is of great importance for woven fabrics.

The elasticity of Fluflon is such that it is used in knitting "Fit-All" socks and other knitted products where stretch-nylon is required. Knitting, weaving, and braiding of Fluflon are accomplished on regular equipment. It is claimed that products knitted from Fluflon are, as a result, improved in texture, color, and elasticity.

Patents covering the new yarn, the new process, and the new apparatus required for this process, are pending in the United States and are to be filed in foreign countries.

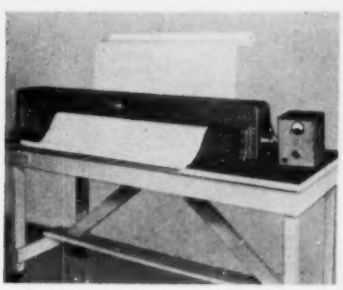
Marionette Mills, Inc., Birch and Wood Sts., So. Coatesville, Pa.

For additional data, request item D-208, using Handy Return Card on page 260.

Electronic Metal Detector for Textile Applications

A new electronic metal detector designed to permit continuous inspection of textiles features a narrow inspection aperture, available in a wide range of widths.

The RCA electronic metal detector



indicates the presence of magnetic, non-magnetic, ferrous, and non-ferrous metals, including stainless steel, brass, copper, manganese steel, aluminum. It will inspect materials moving at speeds from 25 feet to 1000 feet per minute.

The device is built from standard components in any size required by the application—even wide enough to inspect broadloom carpet. For most textile applications, an aperture height of one inch is adequate. However, where required, other heights can be furnished.

The controls can be set to stop a conveyor, light a warning light, sound a horn, spray-mark the contaminated area, or perform any combination of these functions. The controls are simple and can easily be operated by regular plant personnel. There are only two knob-type controls which need be adjusted.

Radio Corporation of America, Industrial Products Section, Front & Cooper Streets, Camden, N. J.

For additional data, request item D-207, using Handy Return Card on page 260.

NEW Equipment AND MATERIALS

32-Section 75 Gauge Full-Fashioned Knitter

A long-section (32) 75 gauge full-fashioned hosiery knitting machine, constructed along the same lines as previous models with the exception of certain designs and modifications

JENKINS PROMPT SERVICE LOWERS OVERHEAD COST

Trying to cut overhead costs to the bone? More and more mills are turning to Jenkins for the prompt, efficient service essential to peak yarn production. New Cylinders and Screens available from stock . . . old ones rebuilt in the least possible time. Let JENKINS SERVICE keep your COSTS down . . . your PROFITS up.

JENKINS QUALIFIED ENGINEERING

METAL SHOPS, INC., GASTONIA, N. C.

SERVING THE TEXTILE INDUSTRY FROM MAINE TO TEXAS

The A B C of WARP TYING

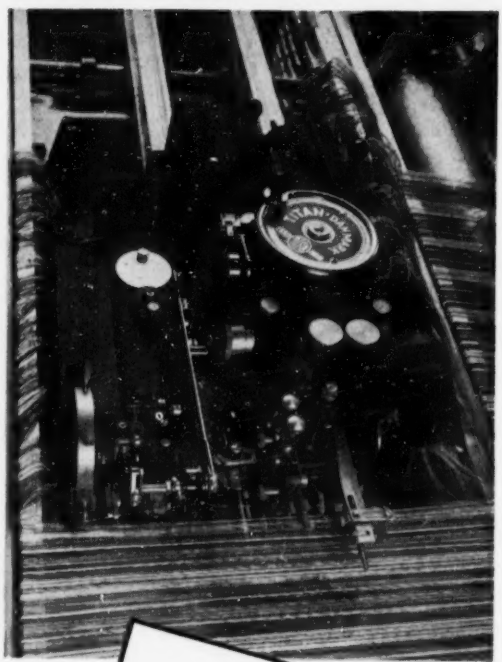
THE NEW, IMPROVED *Tying-In Machine...*

AVAILABLE IN THREE MODELS:

A. GK-6A for tying leased and/or unleased warps, equipped with the new automatic patented DETECTOR to effectively control the lease.

B. GK-6B, the same sturdy universal model as GK-6A without the DETECTOR

C. GK-6C for tying unleased warps

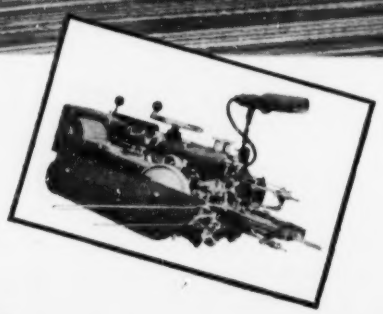


FEATURES

- A streamlined precision machine
- Simply designed for ease of operation
- Used for portable end/or stationary tying
- Multi-frame setup with one tying head
- Ties entire width of any warp in one continuous operation
- Unmatched speed and economy
- Saving in loom down-time
- Tied knots visibly suspended and accessible
- All straight, perfect weaving warps
- Double control of selected ends

The **TITAN** *Selector*—the new invention which completely revolutionizes drawing-in.

The **EXCELSIOR** *Reed Grinder and Brusher*—the inexpensive, competent equipment that saves time and money.



Visit our Booth Nos. 874, 875, 880, and 881 at the American Textile Machinery Exhibition, Atlantic City, N. J., or write for further information and descriptive literature.

General Agents for U.S.A. and Canada.

EDDA INTERNATIONAL CORP.

468 FOURTH AVE., NEW YORK 16, N. Y. CALHOUN TOWERS, GREENVILLE, S. C.

necessary for 75 gauge, is being produced commercially.

One mill has the machine operating on three shifts now and others are planning to install some this year, the manufacturer reports.

Karl Lieberknecht, Inc., Reading, Pa.

For additional data, request item D-219, using Handy Return Card on page 260.

Canvas Basket Line Has All Steel Frames

The "Cottonblossom" line of canvas baskets, trucks, and hampers recently placed on the market features all-steel frames to provide sturdier and longer lasting materials handling units. Upright supports and rims are fabricated throughout from high carbon, spring steel rod. Rims are butt-

Southern Mills' canvas truck (above); below, the all-steel frame.

welded at a single joint by means of a special, new process. This butt-weld is guaranteed to be as strong as the rod. Frame bottoms are composed of electrically welded rectangles of angular steel reinforced with steel slats. Bottoms are painted with chip-proof, resin enamel.

Bodies of the units are made from extra heavy, durable cotton duck with smooth, hard finish. They will not snag the softest fabrics.

Extra wooden skids are available in all sizes for baskets and hampers originally equipped with skids. Several types of casters are offered.

Southern Mills, Inc., 585 Wells St., S. W., Atlanta, Ga.

For additional data, request item D-202, using Handy Return Card on page 260.

Frame Cleaner Has More Power, Greater Capacity

→ *See it in Atlantic City*

A new Parks-Cramer frame mounted traveling cleaner, Type CTF-5, is higher powered and has considerably greater cleaning capacity than previous models. Substantial reduction of hand cleaning is effected by coverage of areas heretofore inaccessible to all traveling cleaner units [see performance report, TI for March, 1954, page 148]. Operating on the same track as previously, the new cleaner is designed both for new installations and to replace older

NEW Equipment AND MATERIALS

L. F. Dommerich & Co., Inc.

Executive and General Offices

271 MADISON AVENUE

NEW YORK 16, N. Y.

Telephone: Murray Hill 3-8650

FACTORS

For Manufacturers and Merchants

Inquiries as to our services solicited

•

BUSINESS ESTABLISHED 1840

New "packaged-type" slasher drives cut installation and operating costs

Westinghouse pioneered in the development of multi-motor slasher drives. Over 250 of our drives are now in service . . . far more than all other makes combined. These drives have been tested and proved in operation. We've learned from this experience how to build drives that will do a better job for your mill. Now Westinghouse offers packaged-type slasher drives which will save even more on installation cost and operation expense.

Installation is easy and inexpensive—All power supply and control equipment is mounted in a single, factory-wired, pre-tested, compact cabinet. This factory wiring greatly reduces installation expense and makes it simple for your own men to expertly install the unit. Too, the compactness of the drive makes it possible to fit the unit into valuable mill space; simplifies servicing of the equipment.

Few stoppages, increased production—These new drives let your slashers run safely at any speed within the capacity of your dryers. Yet because they hold tension constant, you practically eliminate stoppages due to broken ends. Also, this constant tension eliminates soft beams. As a result there are fewer broken ends on your looms . . . fewer loom stops.

Handling costs go down—As much as 20% more warp can be wound on the beam because tension is held constant. This means fewer beam changes and fewer loom interruptions for starting new beams. You benefit by a substantial saving in handling costs.

No bearing lubrication—The M-G set, booster set and all drive motors are equipped with pre-lubricated, sealed bearings. Grease can't get out and dirt can't get in. Bearing lubrication is completely eliminated.

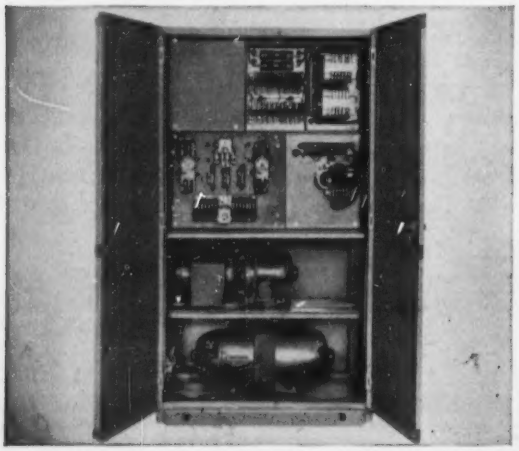
No moving parts in exciter or regulator—The new packaged-type drive uses a static selenium-type rectifier to excite the d-c generator and drive motors. A magnetic amplifier regulates the beam motor to provide constant tension. Both the exciter and regulator have no moving parts and require no maintenance.

J-94983-A

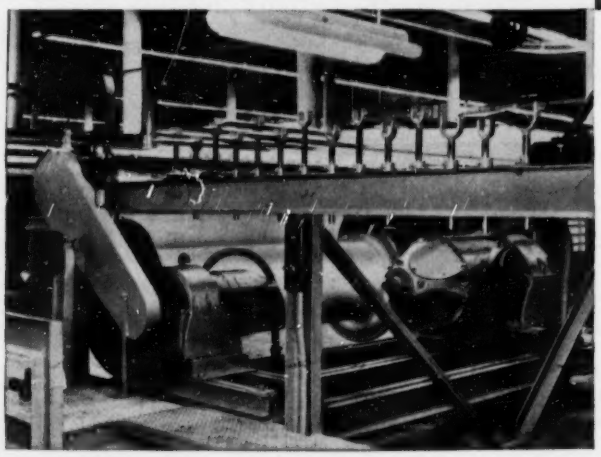
YOU CAN BE **SURE**... IF IT'S

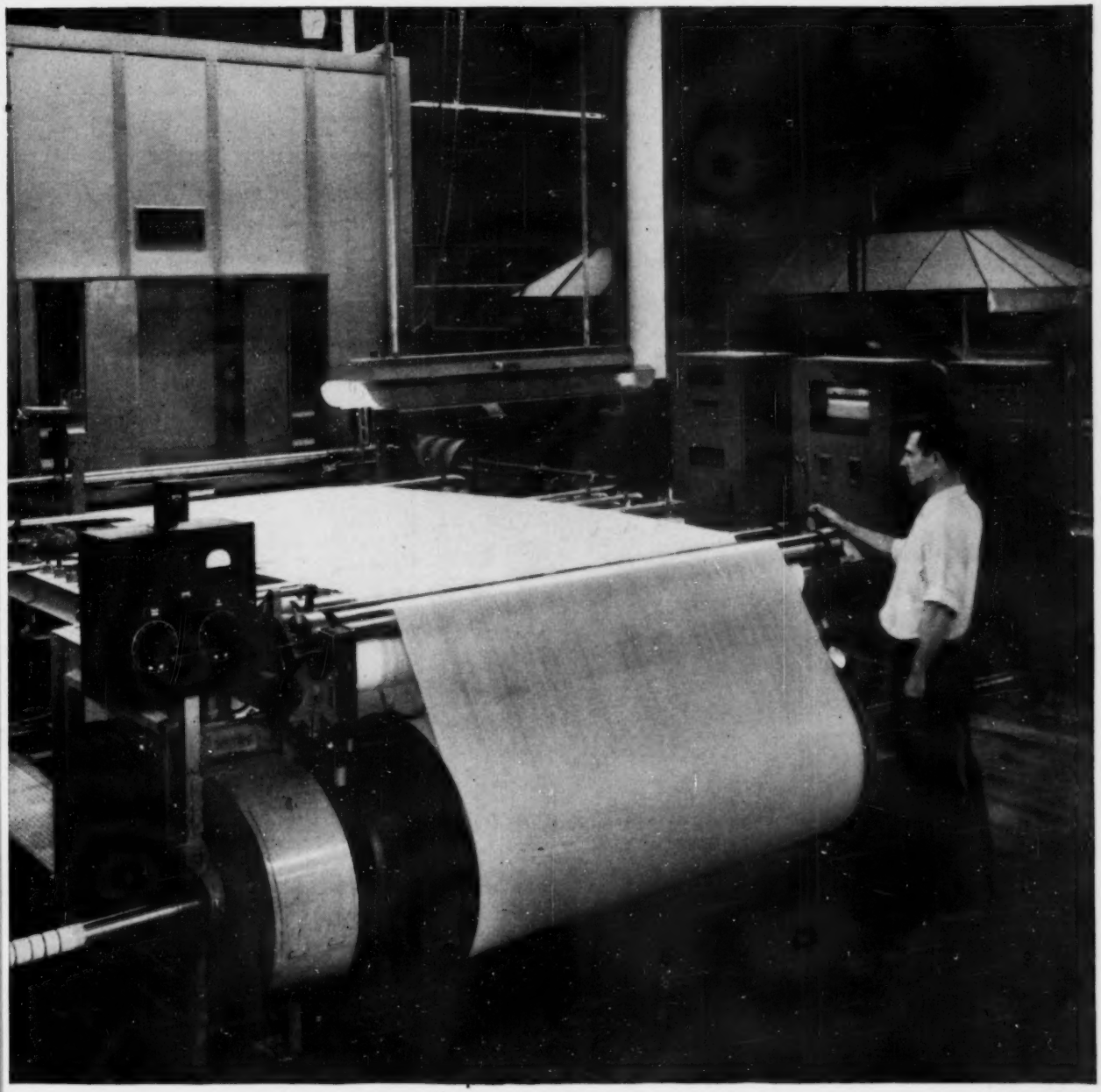
Westinghouse

The new Westinghouse Packaged-Type Slasher Drive greatly reduces your installation expense. All power supply and control equipment is mounted in this single, factory-wired, pretested, compact cabinet.

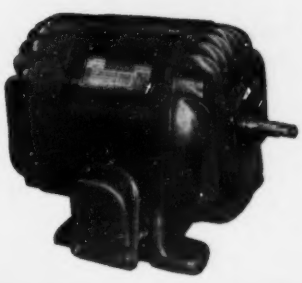


The Westinghouse Gearmotor, at left, drives the delivery roll; the gearmotor at right, the beam. Co-ordinating the motor and speed reducer in one unit results in easier installation and reduces maintenance.



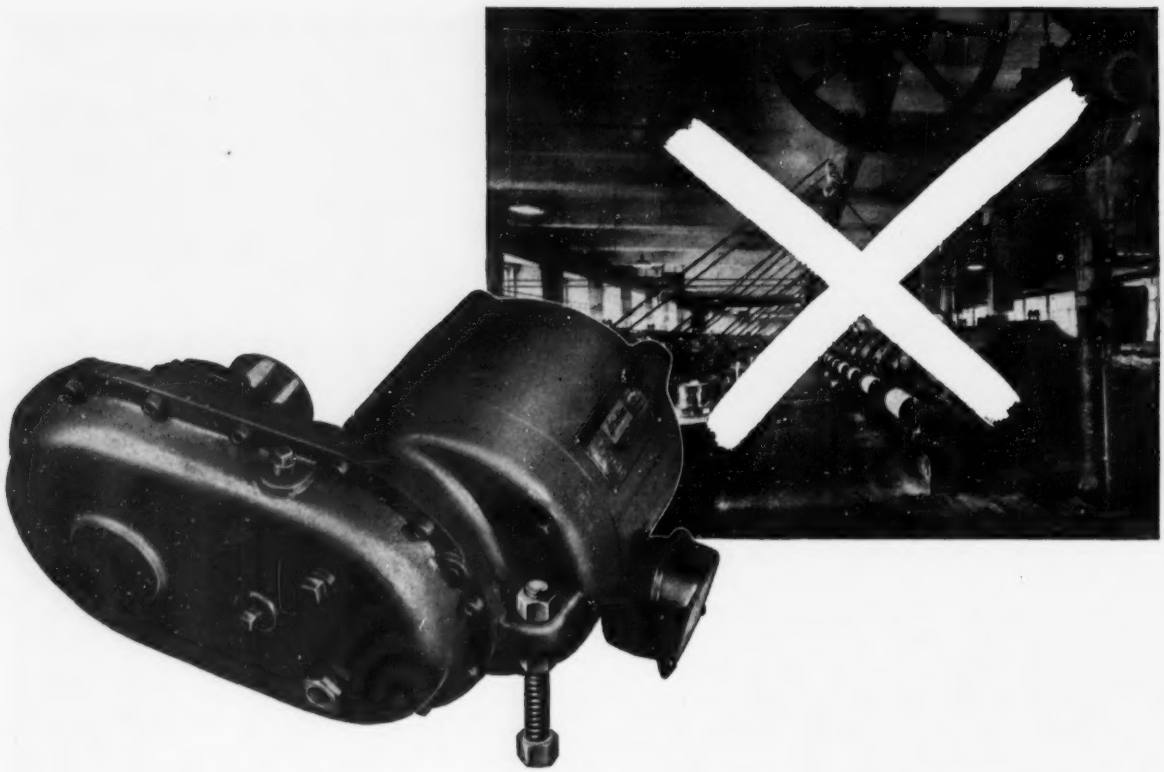


VISIT THE WESTINGHOUSE EXHIBIT AT THE TEXTILE SHOW



For new and profitable ideas for your textile mill operation be sure to visit Booths 95-99 at the American Textile Machinery Exhibition in Atlantic City, April 26-30. See this "packaged-type" slasher drive, the new Cotton-Card Drive Gearmotor (right) and Controller*, the new Westinghouse Loom Motor (left) and Starter*, and other Westinghouse Equipment for textile mills.

*Factory Mutual Approved



NEW SHAFT-MOUNTED DRIVE

clears overhead . . .
solves many card room problems

Westinghouse specially designed this compact Cotton Card Drive to mount directly on card cylinder shaft. Installation of this advanced drive presents no alignment problem.

With all belting eliminated, the chance of slippage is erased . . . steady production can be maintained. Absence of belts also means greater safety, increased lighting effectiveness and clearer aisles.

Maintenance Low... Efficiency High—Simple design and rugged construction of Westinghouse Cotton Card Drives mean a minimum of servicing required. These integral drives have a marked maintenance advantage over a complex network of belts. The efficiency of these double reduction units is rated at 96%, and the squirrel-cage motor powering them has ample starting torque to handle difficult card loads.

Change-over No Problem—Transition from your present drive method to Westinghouse Card Drives can be quickly accomplished without reshuffling cards. Installation on one or a group of cards can be effected without disrupting the entire card room operation.

Obtain full information on this latest card drive advancement. Write Westinghouse Electric Corporation, P. O. Box 868, Pittsburgh 30, Pa. J-07338

YOU CAN BE SURE... IF IT'S

Westinghouse

New Parks-Cramer frame cleaner.

Parks-Cramer units.

Each air outlet is separately adjustable for velocity, and the outlets are adjustable for direction. This enables air currents to be "spotted" for particular areas.

All outlets below head height have flexible cuffs of soft, impregnated fabric which yields whenever they come in contact with any object.

Parks-Cramer Co., Fitchburg, Mass.

For additional data, request item D-210, using Handy Return Card on page 260.

Aid to Wet Processing

Maypon K-903, a protein-fatty acid condensation product which represents a further development of Maypon K, is recommended for application on cotton, rayon, nylon, and wool in the form of loose stock, yarn, and woven fabric and is said to have superior overall efficiency in wetting, dyeing, scouring, milling, and spot removing. In making emulsions, it has increased compatibility with solvents and oils.

Maywood Chemical Works, Maywood, N. J.

For additional data, request item D-209, using Handy Return Card on page 260.

Surface Moisture Indicator

The Cambridge Surface Moisture Indicator was designed as a convenient and fast means of determining moisture content with adequate accuracy in such hygroscopic materials as cellulose, cotton, wool, silk, rayon, nylon, etc. It will also indicate the relative humidity of the surrounding air.

The instrument is contained in a molded plastic case, overall dimensions 3¾" wide by 8¾" long, and weighs 2 lbs. In using the instrument it is simply placed upon the material being tested which permits the moisture to enter the cell through the holes in the cell plate. The moisture within the cell quickly comes into equilibrium with the moisture of the material and a steady reading is generally had within one minute. A protective screen prevents dirt from getting into the cell.

Although calibration is in terms of relative humidity, where required the reading can be converted into terms of per cent moisture with the

NEW Equipment AND MATERIALS

CHAMBRAY
LAWN
INTERLINING
NAINSOOK
TICKING
OSNABURG
NETTING

FLANNEL
ORGANDY
OXFORD
DENIM
SHEETING

IMPERIAL
NANKING
CHINTZ

CLINTON

STANDARDIZED STARCHES

FOR THE SIZING AND FINISHING OF

TEXTILES

CLINTON FOODS INC.

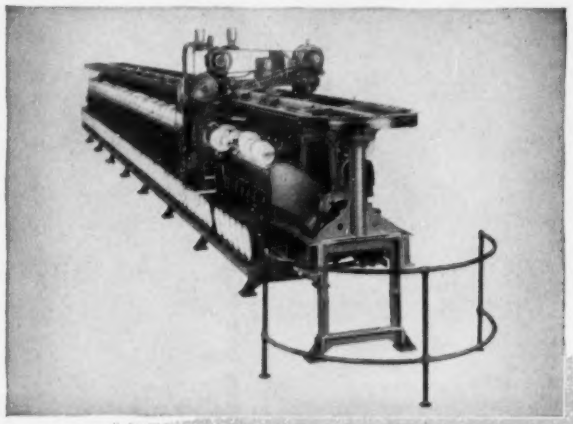
CORN PROCESSING DIVISION

CLINTON, IOWA

BARBER-

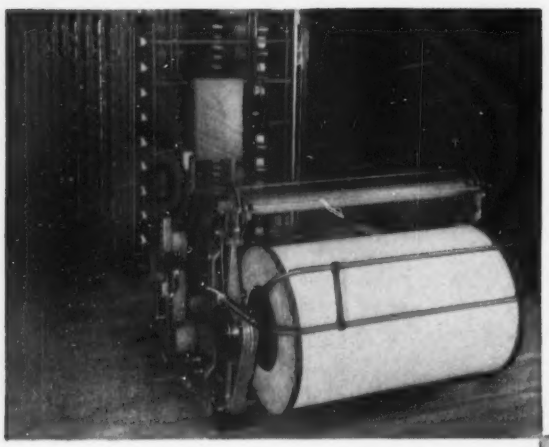
New
LARGE-PACKAGE AUTOMATIC SPOOLER

This new Type "D" machine has been developed to take advantage of the trend toward larger bobbins in the spinning. It will produce packages weighing up to 6 lbs. While the machine resembles the familiar Type "C" in many respects, it has a number of new, outstanding, and distinctive features that contribute to greater production at lower cost.



TEXTILE MACHINERY EXHIBITION — ATLANTIC CITY, APRIL 26-30, 1954 — AMERICAN ASSOCIATION

ATLANTIC CITY

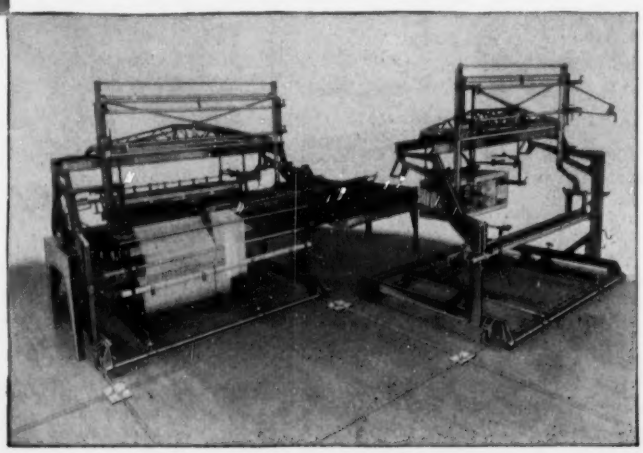


New
SUPER-SPEED WARPER AND CREEL

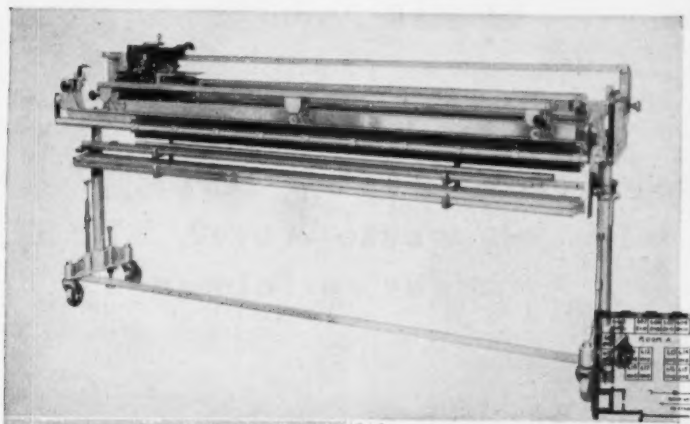
A new Warper capable of winding big beams up to 40" head diameter, and a new V-type inside-loading Creel capable of accommodating the 6-lb. Type "D" packages, have been developed as companion units to the new Spooler. This new Warper can also be used with standard-package Creels.

VERSATILE
WARP DRAWING MACHINE

This interesting machine is typical of a number now available to handle a wide variety of work. It will be demonstrated on a complicated stripe beam warp. Reports from all over the world indicate substantial savings that can be obtained from use of these machines.



COLMAN



New

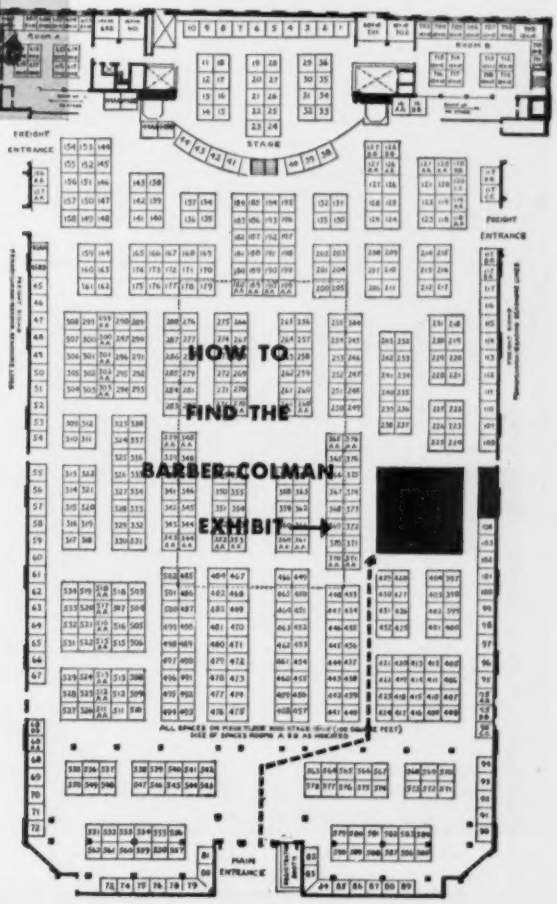
PORTABLE WARP TYING MACHINE

Here you will find a great improvement in the method of tying-in new warps *at the loom*. This machine, made in 46", 56", and 66" lengths (or longer to order), ties-in full width warps in a single operation and has a removable knotter unit. Three models are available for a wide variety of work.

APRIL 26-30

1954

AMERICAN TEXTILE MACHINERY EXHIBITION



AUTOMATIC SPOOLERS • SUPER-SPEED WARPERS • WARP TYING MACHINES • WARP DRAWING MACHINES

BARBER-COLMAN COMPANY

ROCKFORD • ILLINOIS • U. S. A.

FRAMINGHAM, MASS., U. S. A. GREENVILLE, S. C., U.S.A. MANCHESTER, ENGLAND MUNICH, GERMANY

INDIA
Batliboi & Company
Forbes Street, Fort
Bombay, India

MEXICO
J. Rabasa
Isabel la Catolica 45-913
Apartado 7348
Mexico D.F., Mexico

BRAZIL
Quimanil S.A. Anilinas
e Representacoes
Rua Glicerio 537/547
Caixa 5658 e 3431
Sao Paulo, Brazil

JAPAN
Nanko Bussan K. K.
Sampin Building
Kitakyutaro-machi 3-chome
Higashi-ku, Osaka, Japan

MIDDLE EAST
Arlind Corporation
65 Bedford Street
Stamford, Connecticut

$9,000 a year saved

by Royal Yarn Dyeing Corp. with p·k waste water heat reclaimer

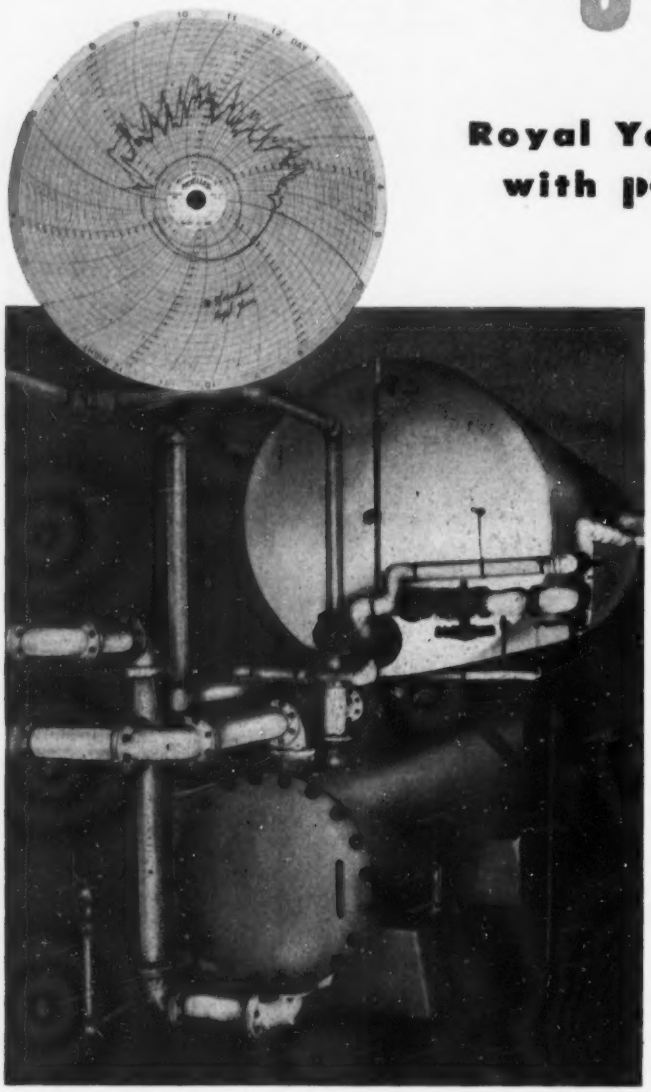


Photo shows **p·k** waste water heat reclaimer at Royal, plus **p·k** cement lined hot water storage heater. Chart authenticated by Mr. Kershaw, shows typical twelve hour day operation. Incoming city water is heated from 48° to 105°, without cost by the **p·k** waste water heat reclaimer.

Since they installed a **p·k** waste water heat reclaimer, Royal Yarn Dyeing Corp. of Brooklyn regularly save a minimum of 600 gallons of fuel oil each day, costing 6 cents a gallon.

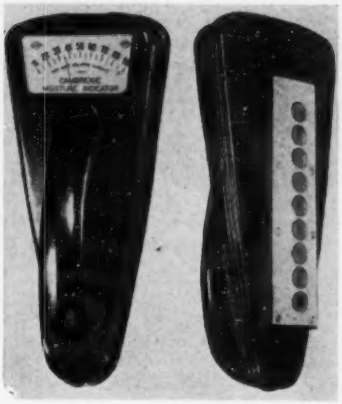
Mr. Milton Kershaw, the Chief Engineer at the plant, says, "The **p·k** waste water heat reclaimer represents an additional 100 horsepower in working load." By taking hot waste water from dyeing vats and running it through the **p·k** heat reclaimer, city water temperature is increased from an average 48° to 105°. Heating incoming cold water in this way costs the company *nothing* – and has eliminated the need for additional boiler capacity.

If you are presently dumping hot process water down the drain, or not getting the maximum waste heat recovery from your present equipment, you can get the right facts and figures from **p·k** without obligation. Write now and ask for catalog #310.

the **Patterson-Kelley Co.,** inc.

1140 Wilson Avenue, East Stroudsburg, Penn.

101 Park Avenue, New York 17 • Railway Exchange Building, Chicago 4 • 1700 Walnut Street, Philadelphia 3 • 96-A Huntington Avenue, Boston 16 • and other principal cities.



Cambridge moisture indicator; top and bottom views.

aid of a conversion curve or regain table suitable for the material being tested.

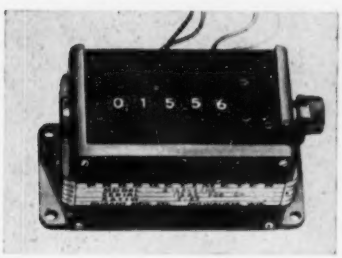
Cambridge Instrument Co., Inc., Grand Central Terminal, New York 17, N. Y.

For additional data, request item D-401, using Handy Return Card on page 260.

Device Controls Production on Any Electric Counting Installation

→ *See it in Atlantic City*

With a newly developed, electrically-operated predetermined counter, the "SP-MF" Productimeter, production can be controlled on any electric counting installation to the exact quantities required, thus eliminating



losses due to over-runs or under-runs.

The unit is entirely enclosed for protection against dust and moisture, designed in a straight line motif, in tones of silver gray and seal brown. Over-all dimensions are: 4⅜" wide x 2⅛" deep x 2⅝" high. Weight is 1¾ lb. Speed is 600 counts per minute.

Available in either four or five figures, the counter is actuated by electric impulses to close or open a switch at any pre-set count from 1 to 9999 or 1 to 99999 respectively. A metal hinged cover provides quick access for easy setting.

Durant Mfg. Co., 1973 North Buffum St., Milwaukee 1, Wis.

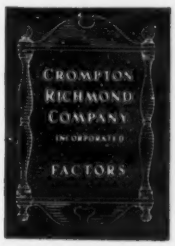
For additional data, request item D-111, using Handy Return Card on page 260.

Powerful Chelating Agent For Trivalent Iron

"Versen-OL" should have wide application in wet processing wherever trace iron creates a problem and causes trouble through its contaminating influence. Known chemically as the trisodium salt of N-hydroxyethylethylene diamine triacetic acid, the new compound is extremely soluble in water and highly stable throughout the pH range.

Through Versen-OL it is now

NEW Equipment AND MATERIALS



The Human Factor

Ample For Your Needs

When a Southern firm is Factored by Crompton, our cash for receivables—more than ample for our Southern accounts—is limited only by the shipping and billing of our customers.

To our factoring services we add a long experience of producing and selling in the South—it goes back many generations.

And, as we have said time and again, we are as near to you as your phone. When you call you will immediately find out how fast we'll be able to serve you... how soon we'll convert your receivables into cash. And you will be glad to hear that we assume all credit risks and collection chores. In other words, we'll keep you liquid at a low cost.

Representatives:
L. N. HUFFSTETLER, Box 605, Gastonia, N. C. • VON D. OEHMIG, Green Island Hills, Columbus, Ga.

CROMPTON-RICHMOND CO., INC.
1071 Avenue of the Americas, New York 18, N. Y.

PROXOL INCREASES MILL PROFIT $78,562 IN ONE YEAR!

HAVE YOU RECEIVED YOUR COPY OF OUR RECENTLY PUBLISHED BOOKLET ON FULLING AND SCOURING WOOL FABRICS?

HOW?

20% INCREASE IN WEAVING EFFICIENCY
due to exceptionally uniform yarn

plus

50% INCREASED PRODUCTION IN FILLING WINDING AND WARPING

plus

15% INCREASE IN YARN STRENGTH

plus

10% LESS FLY IN CARDING

CAN WE HELP YOU?

Talk over this and other Proxol case histories with your Procter & Gamble salesman—or drop a line to

PROXOL ALWAYS GIVES YOU MORE THAN YOU EXPECT!

PROCTER & GAMBLE TEXTILE FINISHES SALES DEPT.
CINCINNATI 2, OHIO

possible to control trivalent iron over a wide pH range. It forms strong 1:1 ferric chelates and prevents hydrolytic decomposition, even in strongly alkaline solutions. Any Versen-OL that remains after chelating the iron present will then inactivate other heavy metal or alkaline earth ions until exhausted.

The Bersworth Chemical Co., Framingham, Mass.

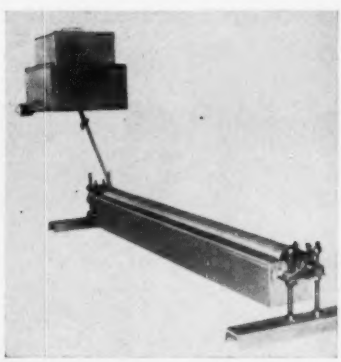
For additional data, request item D-402, using Handy Return Card on page 260.

Device Applies Melted Wax to Yarns, Aids Weaving

→ *See it in Atlantic City*

Especially recommended for mills weaving Dacron and nylon is a new device for applying melted wax to the yarn in a dry state. It is also being tried by a number of cotton mills, the manufacturer reports, with successful results indicated.

The added lubrication that the waxes impart to the yarn increases weaving efficiency, and in some cases



has continued good weaving with less humidity.

Equipment consists of a stainless steel trough, holding the melted wax, in which revolves a stainless steel roll over which the yarn passes. The roll picks up a film of wax and transfers it to the yarn. By adjusting the relative speeds of the roll and the yarn through speed adjustments incorporated in the equipment, the right amount of wax can be applied.

A melting pot acts as a reservoir for the melted wax which is fed to the trough through a tube. Temperature controls are incorporated.

Seydel-Woolley & Co., 748 Rice St., N. W., Atlanta, Ga.

For additional data, request item D-403, using Handy Return Card on page 260.

Fully Automatic Winder Stacks Filling in Box, Free of Dust

→ *See it in Atlantic City*

A fully automatic winding machine for filling bobbins for automatic looms has been developed and is being marketed by Scharer Textile Machine Works of Erlenbach-Zurich (Switzerland).

Main labor saving features of the machine, standard model of which is built with 10 units on a single-sided frame, are the automatic empty bobbin loading device, the dust remover, and automatic motion for carefully placing the bobbins in boxes and stacking all of them in the same direction to avoid necessity of further handling or sorting before being sent to the loom.

The empty bobbin loading device

NEW Equipment AND MATERIALS

TEXTILE ENGINEERS

here's how a *Speedline* system will cut your piping costs

on pressure problems

If You Use Schedule 40 Pipe at 150 psi Operating Pressure

Schedule 40: 100 to 1 Safety Factor

Lighter Wall will Meet Pressure Safety Requirements

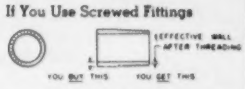
Schedule 10: 83 to 1 Safety Factor

Schedule 5: 50 to 1 Safety Factor

BUY ALL THE WALL YOU *NEED* . . . DON'T BUY *MORE*

on flow problems

If You Use Screwed Fittings



You Lose One Half The Wall You Bought—AT THE THREADS

Lighter Wall Plus Speedline Fittings Give You:

GREATER INSIDE AREA · MORE FLOW
LOWER PRESSURE DROP

You get *greater flow and capacity* in light-wall pipe. For example, Schedule 5 has 15% to 25% more capacity than Schedule 40.

on corrosion problems

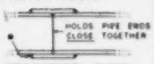
CORRECT ANALYSIS will combat CORROSION regardless of Wall Thickness

Type Corrosion	More Wall?
Contamination	No advantage
Discoloration	No advantage
Intergranular	No advantage
Galvanic	No advantage
Atmospheric	May be advantage
Pitting	Little advantage
Inches Penetration Year	May be advantage

CHANGED ANALYSIS and LESS WALL can be GREATER COST ADVANTAGE than CHANGED ANALYSIS and SAME WALL.

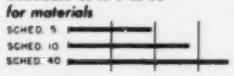
Speedline FITTINGS DESIGNED FOR SCHEDULES 5 AND 10 GIVE YOU:

lower installation costs for labor



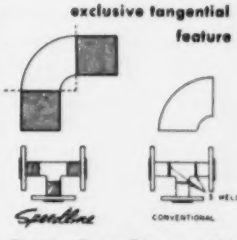
SPEEDLINE ALIGNING CONNECTORS
Speed Installation
*Can be Welded, Fused, Soldered or Brazed
Provide Easy Change-over from Schedule 40 to 5 or 10

for materials



You pay much less for light wall pipe. Here's a cost comparison of the three schedules in 1" size.

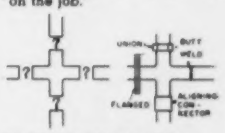
exclusive tangential feature



Provides Easier Aligning (with or without aligning connectors), more clearance for Welding or Flanging on ALL Speedline Formed Fittings. See gray panel below.

greater flexibility

Type of Joint can be selected "on the job."

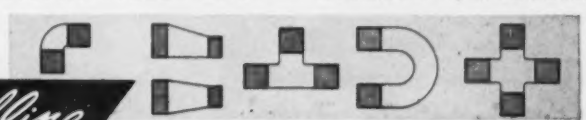


FEWER DESIGN HOURS
FEWER INVENTORY ITEMS

SPEEDLINE "Multiple Choice" Fittings eliminate conventional flanged fittings, provide time and cost advantages of simple layouts versus elaborate and costly designs.

J. M. TULL METAL & SUPPLY CO., INC.
285 MARIETTA STREET N. W. • ATLANTA 3, GEORGIA

Write for a copy of "Speedline Fittings"...without obligation.



Speedline

Corrosion-Resistant FITTINGS—the newest thing in pipeline economy

Manufactured by **HORACE T. POTTS CO.** 522 E. Erie Avenue · Philadelphia 34, Penna.

Southern Office and Stockroom, 914-16 East Franklin Avenue, Gastonia

NEW, LARGER SOUTHERN SUPPLY CENTER

Traveler stocks doubled—service facilities streamlined

F. P. BODENHEIMER
Granite Falls, N. C.

C. H. GREEN
Lanett, Ala.

W. L. HUDSON
Columbus, Ga.

C. W. WILBANKS
Laurens, S. C.

W. T. HORTON
Belmont, N. C.

In line with its well-known slogan, "Keep a step ahead," Victor Ring Traveler Company planned its new supply center in Gastonia to provide a supply service carefully matched to the expanding needs of Victor's many Southern customers.

- Twice the supply of Travelers formerly stocked at the old Gastonia headquarters will provide thousands of styles and sizes in ample volume to fill all average orders.
- Victor's experienced staff of local people, who know local needs and conditions, have all modern facilities to handle your orders with promptness and efficiency.
- Victor's Southern sales representatives operating from these headquarters are now even better equipped to provide the friendly Victor service that keeps production costs down and yarn quality up.

While Victor moves forward with the progress of the textile South, it offers the same high standard of service in any textile area—North, East, West. Make Victor *your* partner in progress.

VICTOR RING TRAVELER COMPANY

PROVIDENCE, R. I. • 20 Mathewson Street • DExter 1-0737
GASTONIA, N. C. • 914-16 E. Franklin Avenue • GAstonia 5-0891

Victor Sales Representatives who travel the Southern textile area are now better prepared than ever to help you with problems of Traveler selection and procurement.

SERVICE SPECIALIST—well-known to Victor's Southern customers by telephone contact, if not by sight, is Leona Brabham, able manager of Victor's new Southern supply center, continuing her 21 year experience as head of Victor's former sales office. Her "traveler-wise" understanding of mill operations is often a pleasant revelation to new customers.

TRAVELERS TRAVEL FAST when your orders are filled at Victor's new Gastonia supply center, because everything was planned for "streamlined" service. The small illustration shows a Victor truck being loaded with shipments of orders received earlier in the day.

"SUPERMARKET" STOCKS That's the impression you get when you look down the long rack illustrated—one of five equally large. They will be even more fully loaded when stocking-up the new supply center is completed.

KEEPS VICTOR A STEP AHEAD

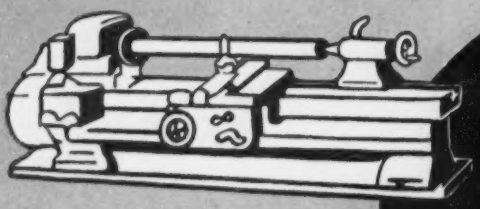
to meet expanding needs of the Textile South

***Keep a step ahead with* VICTOR RING TRAVELERS**

Stop in and relax at Victor Booth 254-255
ATMA EXHIBITION • ATLANTIC CITY • APRIL 26—MAY 1

TEXTILE MACHINERY AMERICAN ASSOCIATION EXHIBITION

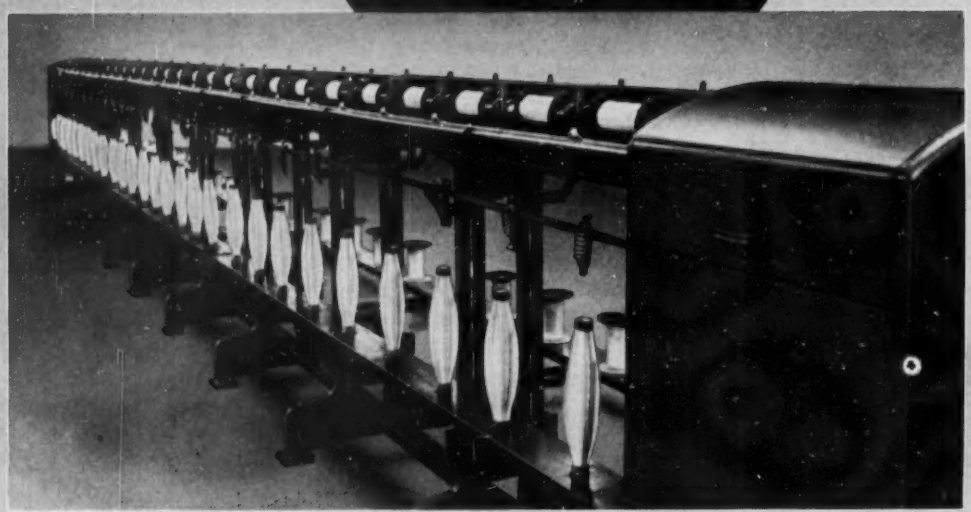
WE TOOK THE LATHE PRINCIPLE AND APPLIED IT TO WINDING



RESULT...

THE NEW *Fletcher*

SPEEDEX WINDER



winding speeds over 1,000 yards per minute with true vibrationless rotation of bobbins

CAN MAKE:

Conventional spools up to 8" traverse

Taper top spools for twisting or warping

Double taper tube for shrinking or shipping

TEXTILE MACHINERY AMERICAN EXHIBITION ASSOCIATION

COME TO ATLANTIC CITY AND SEE THE MOST FLEXIBLE WINDER EVER BUILT

FLETCHER WORKS

225 GLENWOOD AVE. PHILADELPHIA 40, PA. ESTABLISHED-1850

***Southern Representative*—F. W. Warrington, Johnston Bldg., Charlotte, N. C.**

operates in this manner—the empty bobbin is brought automatically from a bulk bobbin container at one end of the machine; a traveling conveyor then receives the empty bobbins and distributes them to the winding units according to requirements.

Dust and lint are removed from the machine by suction and placed in a bag (vacuum cleaner principle), so that machine and yarn are kept clean and air in vicinity of machine is not contaminated.

Two models of the fully automatic winder are manufactured, one arranged so that bobbins are deposited in a box at the opposite ends of the frame from the empty bobbin hopper; the other is arranged to dump into boxes placed under each spindle.

Yeomans Textile Machinery Co., Spartanburg, S. C.

For additional data, request item D-104, using Handy Return Card on page 260.

NEW Equipment AND MATERIALS

"Weld" Labels onto Textiles in One Second

→ *See it in Atlantic City*

Labels can be "welded" onto garments and textiles in about one second with the J&H Electro-Sealer which operates on the high-frequency electronic principle—electrodes transmit the high frequency heat through the cloth to activate a special adhesive with which the labels are treated.

Positive control of timing, pressure, and heat are features of the machine which assure uniformly accurate results without danger of damaging the fabric.

A firm bond can be obtained on any fabric. Where the label and the fabric contain at least some cotton, wool, or spun rayon, guaranteed permanent electro-sealing can be obtained to withstand any number of washings or dry cleanings.

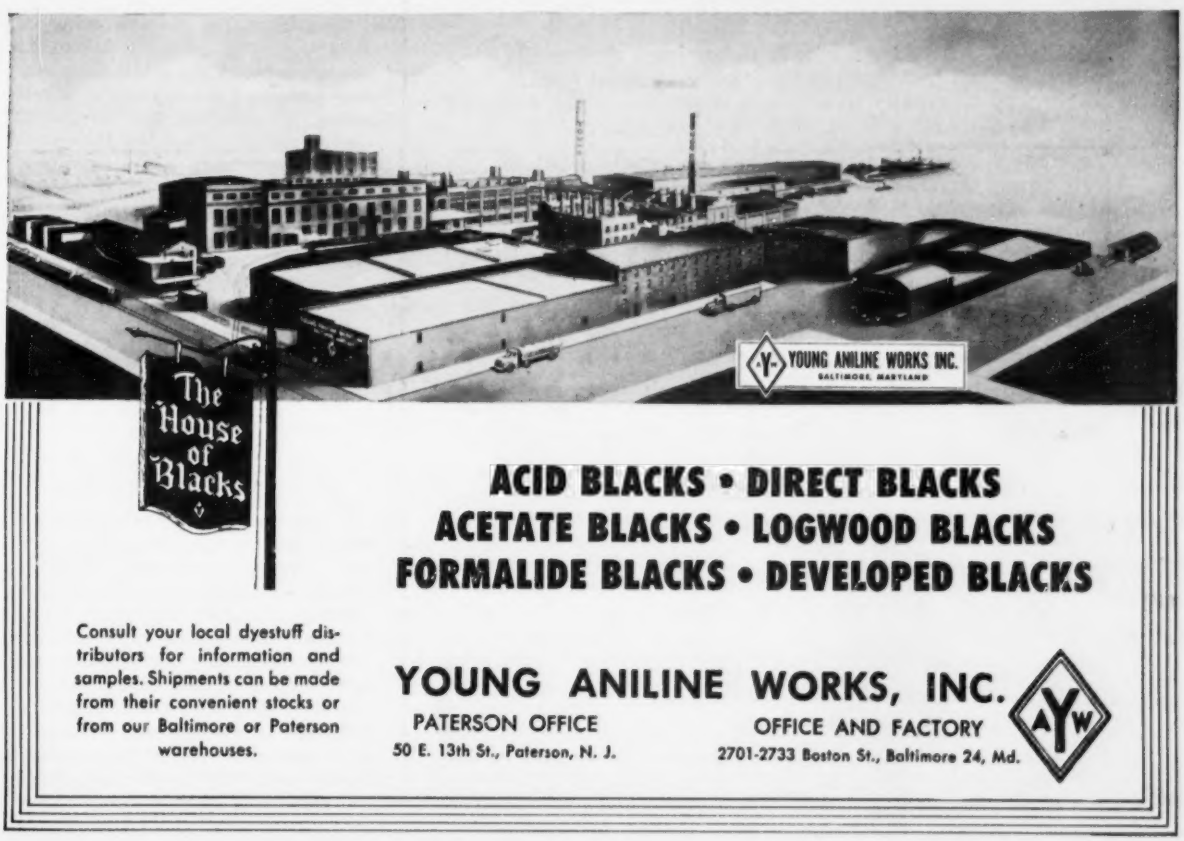
Ginsberg Machine Co., Inc., 224 Fifth Ave., New York 1, N. Y.

For additional data, request item D-217, using Handy Return Card on page 260.

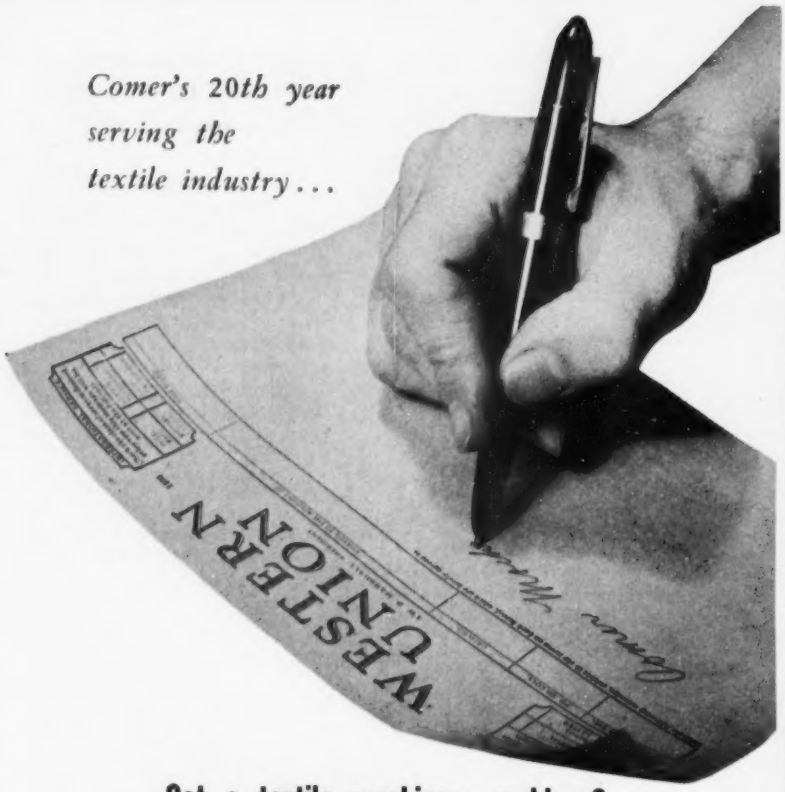
Chemicals Improve Fastness of Dyes on Acetate, Cotton, and Rayon

Two new textile chemical agents to improve the fastness of dyestuffs on acetate, cotton, and rayon fabrics have been developed:

Dextrol Antifume A-15 is being marketed "as a permanent gas fading inhibitor for dyed acetate fabrics." This emulsion of complex organic


YOUNG ANILINE WORKS INC.
BALTIMORE, MARYLAND
The House of Blacks
ACID BLACKS • DIRECT BLACKS
ACETATE BLACKS • LOGWOOD BLACKS
FORMALIDE BLACKS • DEVELOPED BLACKS
Consult your local dyestuff distributors for information and samples. Shipments can be made from their convenient stocks or from our Baltimore or Paterson warehouses.
YOUNG ANILINE WORKS, INC.
PATERSON OFFICE
50 E. 13th St., Paterson, N. J.
OFFICE AND FACTORY
2701-2733 Boston St., Baltimore 24, Md.
AYW

Comer's 20th year serving the textile industry . . .



Got a textile machinery problem?

WIRE COMER!

FOR 20 YEARS . . . contacts throughout the textile industry, both here and abroad, have enabled Comer Machinery Company to serve as a market place for both buyers and sellers of textile machinery.

Your machinery requirements can be supplied either by Comer, through its many current liquidations, or at the Southern Mill Supply warehouse in Athens, Georgia—a firm cooperating with Comer in serving the entire textile industry. Call, write or wire Comer today!

COMER MACHINERY

COMER Machinery Company

308 Ivy Street, N.E., Atlanta, Georgia

"Let's go see what's new in Athens . . ."

NEW Equipment AND MATERIALS

amino compounds is substantive to the acetate and withstands repeated washing and dry cleaning without losing its effectiveness.

Dextrafix B is an effective fixative for direct dyes on cotton and rayon. This cationic resin prevents migration and staining with prints and renders most direct dyes fast against mild soap washing.

Dexter Chemical Corp., New York 59, N. Y.

For additional data, request item D-204, using Handy Return Card on page 260.

Improved Wrappers for Dye Springs and Tubes

Skintex spiral spring wrappers and perforated tube wrappers for use with yarn packages that are to be dyed have recently been improved—the rate of penetration has been increased and the wet strength has been improved for easier handling in hot or cold dye baths.

Tests show that the new wrappers work well with synthetic as well as natural yarns. Other advantages are: they save time, save yarn by eliminating snagging on springs during rewinding, and spread the dye quickly and uniformly over the inner windings of yarn to avoid undyed spots of yarn caused by solid areas of the perforated tube preventing the passage of dye.

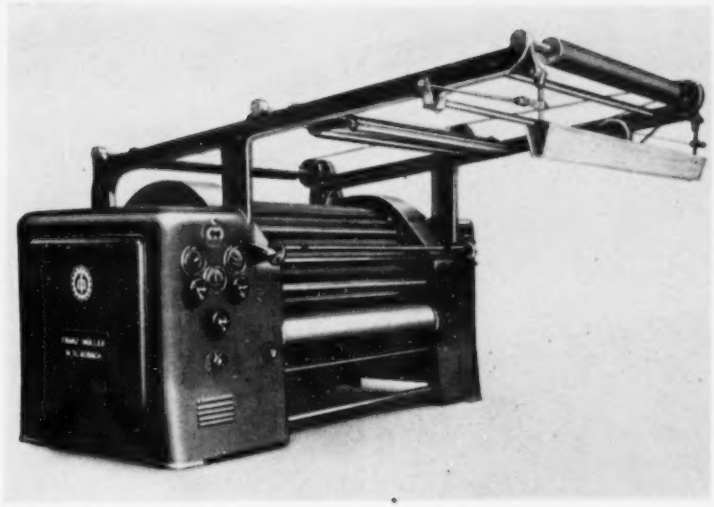
Technical Papers Corp., 25 Huntington Ave., Boston 16, Mass.

For additional data, request item D-201, using Handy Return Card on page 260.

For Low Cost Winding of All Kinds of Filling

→ *See it in Atlantic City*

Because the Foster-Muschamp Model 66 is a full automatic, superspeed filling winder, with automatic bobbin replenishing, automatic pinboarding or filling box stacker, and magazine creeling of supply, it assures exceptionally low winding cost. It is estimated that production per operator is at least three times the poundage of conventional automatic equipment. For example, one operator is capable of handling 5,000 net pounds of yarn per eight-hour shift at a cost of about 19 mils per



Uniform Napping at Cloth Speeds up to 40 ypm

⟹ *See it in Atlantic City**

Pictured here is the Franz Muller (Germany) Tri-Raising machine described on page 103 of TI for March, 1954.

Outstanding features include: Increase in production up to three times normal output, steplessly variable cloth speed up to 40 yards per minute, steplessly variable napping effect, fewer cloth runs necessary, electro-magnetic instant brake.

Textile Machinery Import Co., 277 North Ave., New Rochelle, N. Y.

For additional data, request item D-103, using Handy Return Card on page 260.

*Note: Since no space was available in Atlantic City's Convention Hall, Franz Muller made arrangements to display this napper in the Crane Building located on the boardwalk across the street from the auditorium.

pound of yarn quilled.

Main elements of the machine, which is designed to wind at a 15,000 rpm spindle speed, are: independently controlled ball bearing spindles, an automaton for donning and doffing bobbins, a shockproof start, a straight line thread delivery, the close delivery thread guide, a gear box with exterior traverse cam and layer locking adjustable traverse, a feeler or feelerless build, a novel bunch builder, a delicately balanced stop motion, a single spindle automatic bobbin replenisher or a centralized hopper for fully automatic bobbin replenishment, and an automatic pinboarder (optional) serving 4 or 8 spindles.

The machine with the automatic centralized bobbin replenisher is suitable where a mill has a large volume of bobbins to be handled; whereas the single spindle automatic bobbin replenishing arrangement is suitable for a small or fancy goods mill running several types of bobbins.

Foster Machine Co., Westfield, Mass.

For additional data, request item D-110, using Handy Return Card on page 260.

Want More Information on These Items?

Use Handy Return Card on page 260, giving Key Number (D-300, etc.) which appears after the name of the supplier of the item in which you are interested. Or, if you prefer, write supplier direct.

A **stepless adjustable-speed drive,** the Electronic Select-A-Spede, ¾ to 15 hp, offers precision speed control, unusually wide range where required, adaptability to a variety of optional electrical and mechanical modifications, and the use of simple and reliable electronic circuits.

The Louis Allis Co., Milwaukee 7, Wis. (D-301).

Gas-powered Clark Carloader-model **fork trucks with Hydratork Drive** in 3,000 - 5,000 pound capacities are now available. Hydratork Drive is

(Continued on page 251)

Supplies?
Equipment?
Machinery?

When you Want it... IT'S THERE!

Southern Mill Supply Company

Here, in one of the world's largest warehouses of used textile supplies, you can find what you need—supplies, equipment or machinery. Whether you want to buy a single piece, or a complete mill section, chances are you'll find just what you need among the carefully catalogued pieces. Let Southern know your needs, or come visit the warehouse. Become familiar with the supplies, equipment and machinery available for quick delivery.

SOUTHERN
Mill Supply Company
Athens, Georgia

In partnership with Comer Machinery Company . . . serving the needs of the entire textile industry.

An Exhibition Highlight

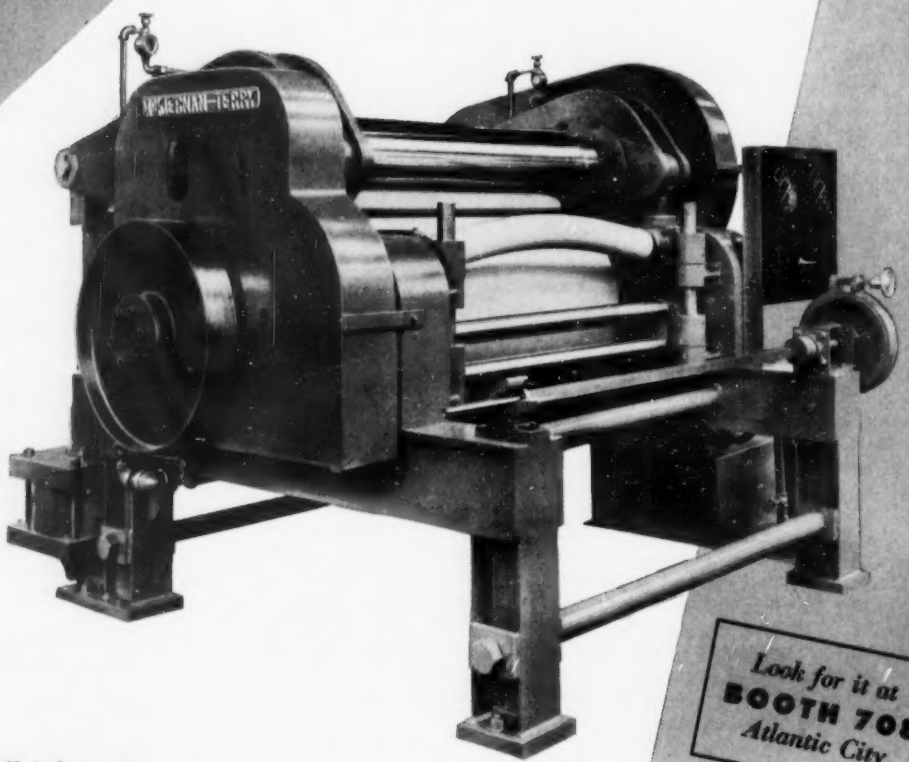
TEXTILE MACHINERY EXHIBITION — AMERICAN ASSOCIATION — ATLANTIC CITY APRIL 26-30 1954

McKIERNAN-TERRY

Multi-Purpose CALENDER

For Resin Finishes

The Calender that can be used for Friction, Schreiner and Embossing Services in a SINGLE Machine



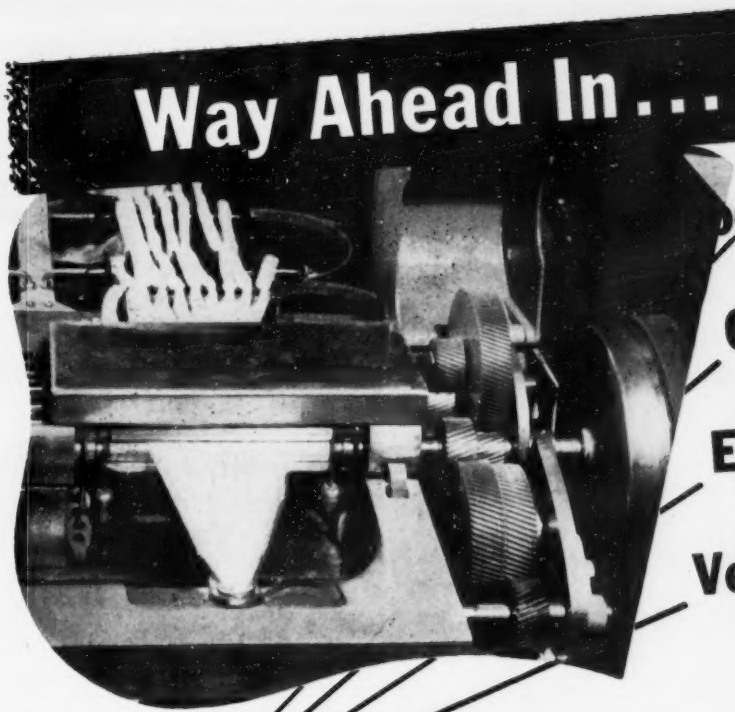
Look for it at **BOOTH 708** *Atlantic City*

Write for full information

McKIERNAN-TERRY CORPORATION • *Harrison, New Jersey*

MK-604

Way Ahead In...



oduction Per Frame

Quality of Roving

Economy

Versatility

Ideal High Speed Ball Bearing Drawing Rolls*

In Production

Drawing frames equipped with Ideal Rolls produce approximately 40% more sliver than is possible on any other frame.

In Quality of Roving

Ideal's construction practically eliminates bruising and shearing of stock. Permanent synchronization of the roll units prevents thick and thin places. Fluted rolls, higher speeds, and longer draft produce a deeper and more permanent crimp.

Economy

Ideal Drawing Rolls save you money on original investment, on floor space, on production labor, and on maintenance.

Versatility

Ideals draft synthetics and cottons with equal efficiency. They are the *only* drawing which permit blending of combed cottons and synthetic staple of unequal fibre length.

TEXTILE MACHINERY EXHIBITION — ATLANTIC CITY — APRIL 26-30 1954 — AMERICAN ASSOCIATION

We will be glad to prove these claims to you . . . on your stock in our pilot plant, or in your mill.

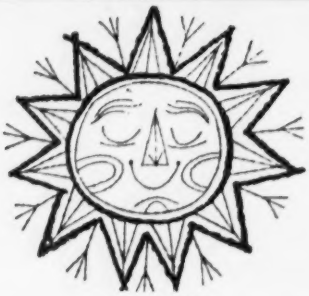
Ideal Industries, Inc.
Bessemer City, N. C.

*Patent Nos. 2,610,363; 2,490,544; 2,412,357. Other patents pending.

NAME YOUR HAZARD–CELAPERM'S NEW

PROVES FASTER THAN

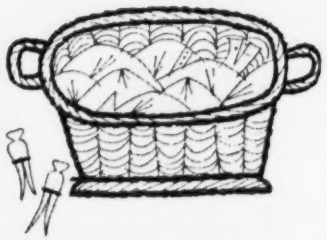
A range of 18 colors in Celaperm were tested against the best available matching vat dyes, according to American Association of Textile Chemists and Colorists' procedures. For purposes of demonstrating relative performance, a score of 1000 was used as perfect. Name your hazard. Here are the results. This is your proof of Celaperm performance.



LIGHT

Celaperm 923 Vat Dyes 728

American Standards Association recommends 60 Fadeometer hours light-fastness for drapery fabrics. All colors in Celaperm easily exceeded this. Many were unaffected after 320 Fadeometer hours.



WASHABILITY

Celaperm 1000 Vat Dyes 633

The result of Wash Test # 4, involving strong soap, high temperatures, and chlorine bleach—harsher treatment than most fabrics ever face.

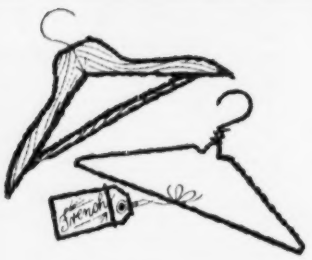
WEATHER

In special "weathering" tests designed to show color change in sunlight when fabric is wet, no Celaperm yarn changed color below 80 hours (well above accepted standards), the great majority were still unchanged at 320 hours.

PERSPIRATION

(acid and alkaline)

Celaperm 1000 Vat Dyes 1000



DRY CLEANING

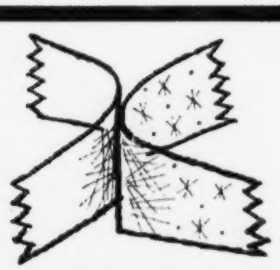
Celaperm 1000 Vat Dyes 1000

GAS FADING

Celaperm 1000 Vat Dyes 1000

SEA WATER

Celaperm 1000 Vat Dyes 1000



CROCKING

(wet) **Celaperm 1000 Vat Dyes 823**

(dry) **Celaperm 1000 Vat Dyes 1000**

Colors in Celaperm yarns will not rub off, either wet or dry.

COLOR RANGE ANY EVER MADE

Celanese*

CELAPERM*

the acetate yarn with the "sealed-in" color

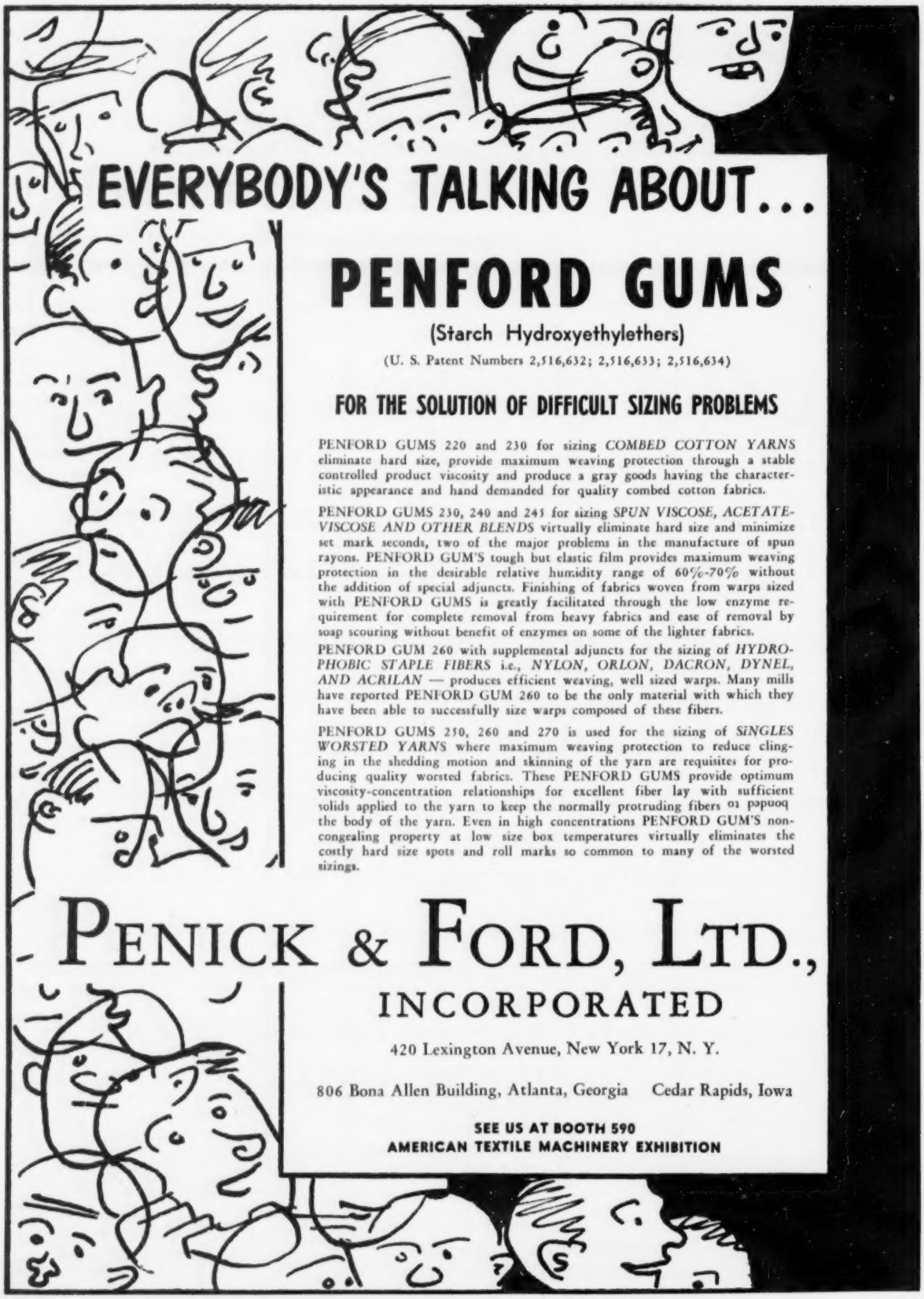
Celanese does not *claim* unsurpassed fastness for its new range of colors in Celaperm acetate. Celanese *proves* it—with the exacting tests which the American Association of Textile Chemists and Colorists have established.

Here you see some of the most beautiful colors in the market equalling or surpassing the best vat dye performance in resistance to every common color hazard—from sunlight and washing to perspiration.

We are proud that every mill, maker and merchant can *trust* these colors completely for their fashion authority and performance. We are proud, too, that these record-breaking colors in Celaperm owe their overall color performance to pigments exclusive with Celanese.

Celanese Corporation of America, New York 16.

*Reg. U. S. Pat. Off.



EVERYBODY'S TALKING ABOUT...

PENFORD GUMS

(Starch Hydroxyethylethers)

(U. S. Patent Numbers 2,516,632; 2,516,633; 2,516,634)

FOR THE SOLUTION OF DIFFICULT SIZING PROBLEMS

PENFORD GUMS 220 and 230 for sizing *COMBED COTTON YARNS* eliminate hard size, provide maximum weaving protection through a stable controlled product viscosity and produce a gray goods having the characteristic appearance and hand demanded for quality combed cotton fabrics.

PENFORD GUMS 230, 240 and 245 for sizing *SPUN VISCOSE, ACETATE-VISCOSE AND OTHER BLENDS* virtually eliminate hard size and minimize set mark seconds, two of the major problems in the manufacture of spun rayons. PENFORD GUM'S tough but elastic film provides maximum weaving protection in the desirable relative humidity range of 60%-70% without the addition of special adjuncts. Finishing of fabrics woven from warps sized with PENFORD GUMS is greatly facilitated through the low enzyme requirement for complete removal from heavy fabrics and ease of removal by soap scouring without benefit of enzymes on some of the lighter fabrics.

PENFORD GUM 260 with supplemental adjuncts for the sizing of *HYDROPHOBIC STAPLE FIBERS* i.e., *NYLON, ORLON, DACRON, DYNEL, AND ACRILAN* — produces efficient weaving, well sized warps. Many mills have reported PENFORD GUM 260 to be the only material with which they have been able to successfully size warps composed of these fibers.

PENFORD GUMS 250, 260 and 270 is used for the sizing of *SINGLES WORSTED YARNS* where maximum weaving protection to reduce clinging in the shedding motion and skinning of the yarn are requisites for producing quality worsted fabrics. These PENFORD GUMS provide optimum viscosity-concentration relationships for excellent fiber lay with sufficient solids applied to the yarn to keep the normally protruding fibers of papuoq the body of the yarn. Even in high concentrations PENFORD GUM'S non-congealing property at low size box temperatures virtually eliminates the costly hard size spots and roll marks so common to many of the worsted sizings.

PENICK & FORD, LTD.,
INCORPORATED

420 Lexington Avenue, New York 17, N. Y.

806 Bona Allen Building, Atlanta, Georgia Cedar Rapids, Iowa

SEE US AT BOOTH 590
AMERICAN TEXTILE MACHINERY EXHIBITION

a transmission which does away with need for a gear shift, high and low gears and a clutch and clutch pedal. Gear clashing is eliminated, thus maintenance requirements are less.

Clark Equipment Co., Battle Creek, Mich. (D-302).

A streamlined, **telescopic boom conveyor** for easy and quick loading and unloading trailer trucks is a self-contained, power-driven unit. Available in a varying range of widths and lengths.

Alvey Conveyor Mfg. Co., 9301 Olive St. Rd., St. Louis 24, Mo. (D-303).

A new series of "Q" **shell stitch machines** operating at higher speeds is expected to develop new applications for the shell stitch edge finish. Three styles included—A-3QN produces smaller shell than previously possible; A-3Q makes shell similar to 60-Q; and A-3Q-3 produces slightly larger shell.

The Merrow Machine Co., 28 Laurel St., Hartford, Conn. (D-304).

For recording and control of temperature, conductivity, strain, force, position, pressure, and for telemetering, the new **a-c null balance recorder-controllers** were developed. Low first cost, low operating and maintenance costs, and maximum flexibility are made possible by unit assembly principle.

Fielden Instrument Div., Robertshaw-Fulton Controls Co., 2920 North 4th St., Philadelphia 33, Pa. (D-305).

Built to withstand the splintering, pounding, gouging abuse to which factory doors are subjected by fork lift trucks and other industrial equipment, the new **Ace Durador** is rigid, strong, lightweight plywood reinforced with steel and completely covered with a tough hide of soft rubber. It eliminates need for bumpers and automatic door opening devices. Resists corrosion.

American Hard Rubber Co., 93 Worth St., New York 13, N. Y. (D-306).

Underwriters' Laboratories - approved electric Carloader series **fork trucks for operation in hazardous areas** covered by Underwriters' Class I, Group D classification, in capacities from 3,000 to 5,000 pounds, are now available.

Clark Equipment Co., Battle Creek, Mich. (D-307).

With parallel live roller conveyor lines packages may proceed to a new **automatic package transfer station** and be automatically transferred from one line to another.

Alvey Conveyor Mfg. Co., 9301 Olive St. Rd., St. Louis 24, Mo. (D-308).

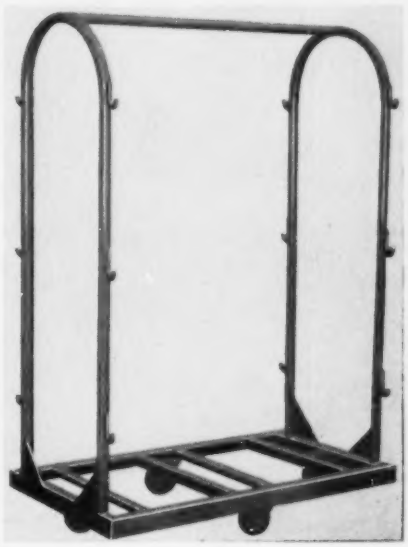
"Stock" air and hydraulic cylinders are available for immediate delivery in several hundred popular combinations of bore, stroke, and mounting. Solid steel heads, caps, and mountings, hard chrome plated piston rods, dirt wiper seals, leakproof piston rod seals.

Miller Fluid Power Co., 2040 N. Hawthorne Ave., Melrose Park, Ill. (D-309).

NEW Equipment AND MATERIALS

A powerful little **4½" magnet** recently introduced may be used as a recovery tool for anyone who works with metal. Designed to attract and hold lost tools, parts or spilled pieces of metal from inaccessible places.

Eriez Mfg. Co., Erie, Pa. (D-320).



FISHER STEEL LAP TRUCK

Uprights are made of best grade tubular steel or 1 1/4" steel angle iron, and steadied with steel angles. Base is of 2" angle iron. All inside and outside angles and joints are securely welded. Rigid and durable. Sizes to suit lap specifications. Painted green or gray as wanted.

Fisher offers design and engineering service on trucks for any textile need. We make many styles. Write for illustrated folder, and tell us your wants.

Representatives

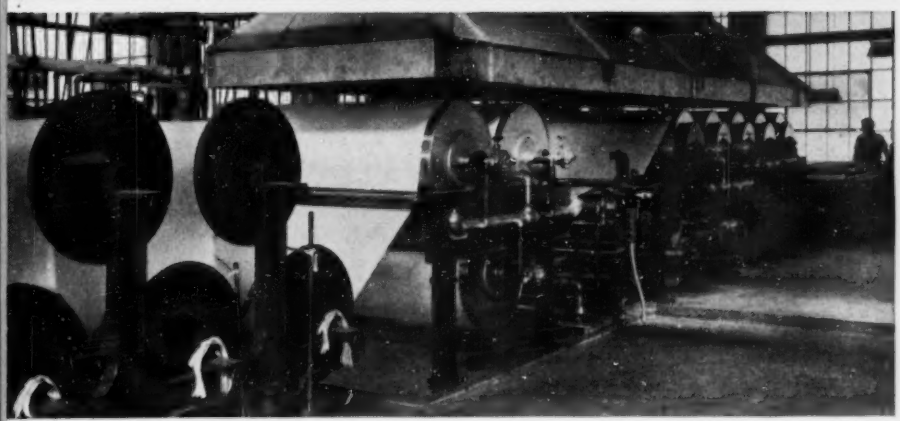
Carolina Supply Co., 35 W. Court St., Greenville, S. C.
Textile Specialty Co., Box 1297, Greensboro, N. C.
J. W. Davis, 122 Dillingham St., Columbus, Ga.
Thos. A. Davis, 412 Swift Bldg., Columbus, Ga.

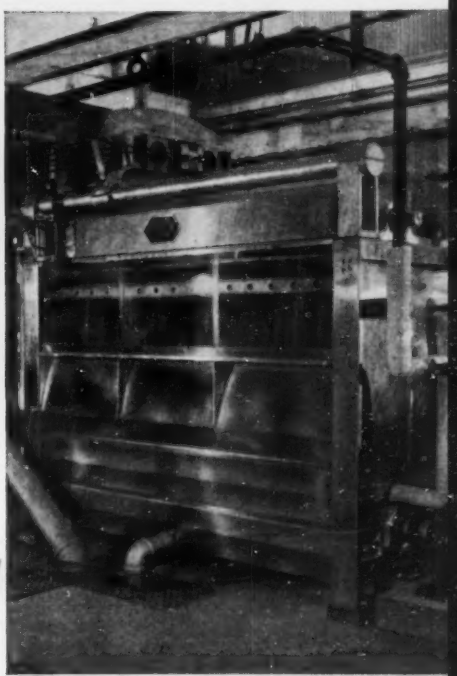
FISHER MANUFACTURING CO.
MATERIALS HANDLING EQUIPMENT TEXTILE
BOX 244 -- HARTWELL, GEORGIA

SYNTHANE
invites you to a special showing of laminated products used in textile manufacture.
BOOTHS 587 AND 588—APRIL 26TH TO APRIL 30TH, 1954
AMERICAN TEXTILE MACHINERY EXHIBITION—ATLANTIC CITY, N.J.
Textile Division
SYNTHANE
SYNTHANE CORPORATION
Laminated Plastics

BEAM DYEING OPERATIONS at Rosemary Manufacturing Company. The beams at the left, the kiers in the center and the dye mixing tanks at the right are all Stainless Steel. The beams and kiers were manufactured by Obermaier Stienen, American Standard Fabricators, Corp., New York, and Gaston County Dyeing Machine Company, Stanley, N. C.

THIS TENSITROL ROPE WASHER, which handles cloth after mercerizing, requires only 10% as much maintenance as the wooden unit it replaced. The patented Tensitrol® washer was manufactured by Rodney Hunt Machine Co., Orange, Mass.





ONE OF THE THREE SLASHER UNITS at the Roanoke Rapids mill. Yarn is unwound from the Stainless beams at the left, is pre-dried on Stainless cans, passes through the Stainless size box and then over Stainless dry cans again. The units were fabricated by Cocker Machine & Foundry Company, Gaston, North Carolina.

Rosemary Manufacturing Company dyes its cotton damasks in non-contaminating STAINLESS STEEL equipment

• In its dyeing operations, Rosemary Manufacturing Company, Roanoke Rapids, N. C.—a large producer of table damask as well as other cotton and rayon goods—takes every possible step to protect the trueness of as many as 400 different shades. And one of the most important steps is the use of Stainless Steel wherever dyestuffs or cotton and rayon goods are processed.

From the pilot dye plant, where the highest degree of control and freedom from contamination is necessary, to beam dyeing operations, the dense, smooth surface of Stainless Steel prevents carryover and makes cleaning easy.

These Stainless Steel slasher units are in operation here, with Stainless Steel dry cans ahead of and behind the Stainless size box. Replacement of a copper lined iron starch tank with one of Stainless Steel eliminated rusting and the lower maintenance costs have more than offset the cost of the replacement.

Other Stainless Steel equipment in the dyeing operation includes a dye range, an ager, a rope washer and dye-becks. The Stainless Steel washer requires only 10% as much maintenance as the wooden one it replaced.

The dye plant is only one place where Stainless Steel reduces costs, and, at the same time, gives the product the greatest protection possible. Take advantage of Stainless Steel, and when you do, be sure perfected, service-tested USS Stainless Steel is used.

UNITED STATES STEEL CORPORATION, PITTSBURGH • AMERICAN STEEL & WIRE DIVISION, CLEVELAND
COLUMBIA-GENEVA STEEL DIVISION, SAN FRANCISCO • NATIONAL TUBE DIVISION, PITTSBURGH
TENNESSEE COAL & IRON DIVISION, FAIRFIELD, ALA. • UNITED STATES STEEL SUPPLY DIVISION, WAREHOUSE DISTRIBUTORS
UNITED STATES STEEL EXPORT COMPANY, NEW YORK

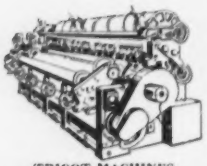
USS STAINLESS STEEL

SHEETS • STRIP • PLATES • BARS • BILLETS USS PIPE • TUBES • WIRE • SPECIAL SECTIONS

4-453

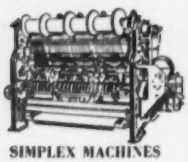
UNITED STATES STEEL

The Reiner Line:



TRICOT MACHINES

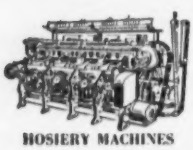
RASCHEL MACHINES



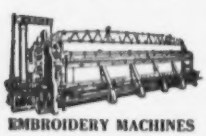
SIMPLEX MACHINES

WARPERS

CREELS



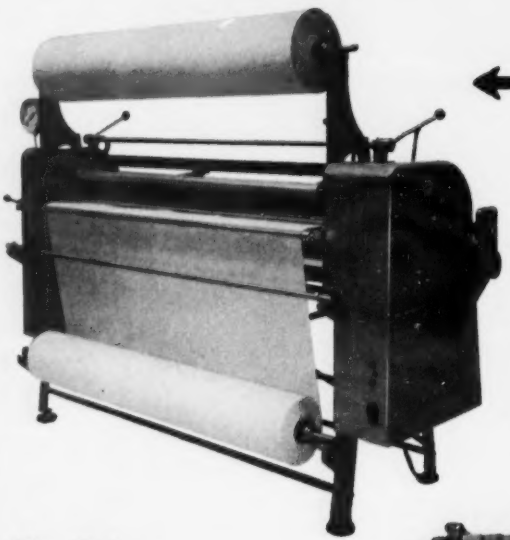
HOSIERY MACHINES



EMBROIDERY MACHINES

Ready spare part service for all Reiner equipment.

MACHINES *Well Worth Seeing!*



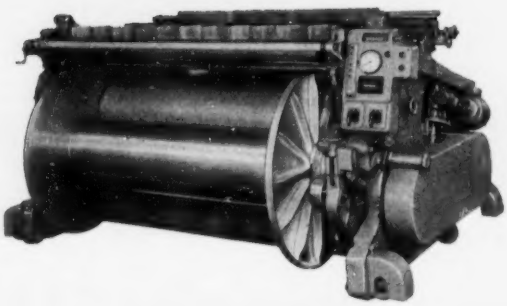
The Rabo 54 Permanent Pleating Machine (working width 59½ inches) for processing woven and knitted fabrics of synthetic or natural fibers. Specially developed to produce wash-proof flat, knifed and box pleats in a limitless variety of patterns and designs. Among its many features are sliding guides for pleating several narrow strips simultaneously—temperature control by patented thermionic system—automatic rewind of pleated fabrics—automatic paper feed—water cooled outlet table and many other features. Also available is a twenty-inch crystal-pleater, with or without bow attachment.

Further details upon request.

The Reiner Heavy Duty Beamer

has found ready and widest acceptance by many mills. It is ruggedly built, takes highest speeds and has many features and exclusives.

This is a machine a mill man must see to be up-to-date on the very latest Heavy Duty Beamers. Also see our Creel demonstration section, plus a scale model of the sensational Famatex-Reiner Tenter Frame.



These are only a few units of the world famous Reiner line. Others are: Tricot—Simplex and Raschel Machines—Warpers and Creels for all needs—Full Fashioned Hosiery Machines up to 75 gauge—Full Fashioned Sweater Machines—10 and 15 yard Automatic Schiffli Embroidery Machines—Multihead Automatic Embroidery Machines—Bobbin Winding machines for quilting and stitching—Famatex Tenders.

Whatever your problem, come and see us at our Booth Nos. 45AA—45BB—45—46—47 AMERICAN TEXTILE MACHINERY EXHIBITION, Atlantic City, N. J., April 26 to 30.

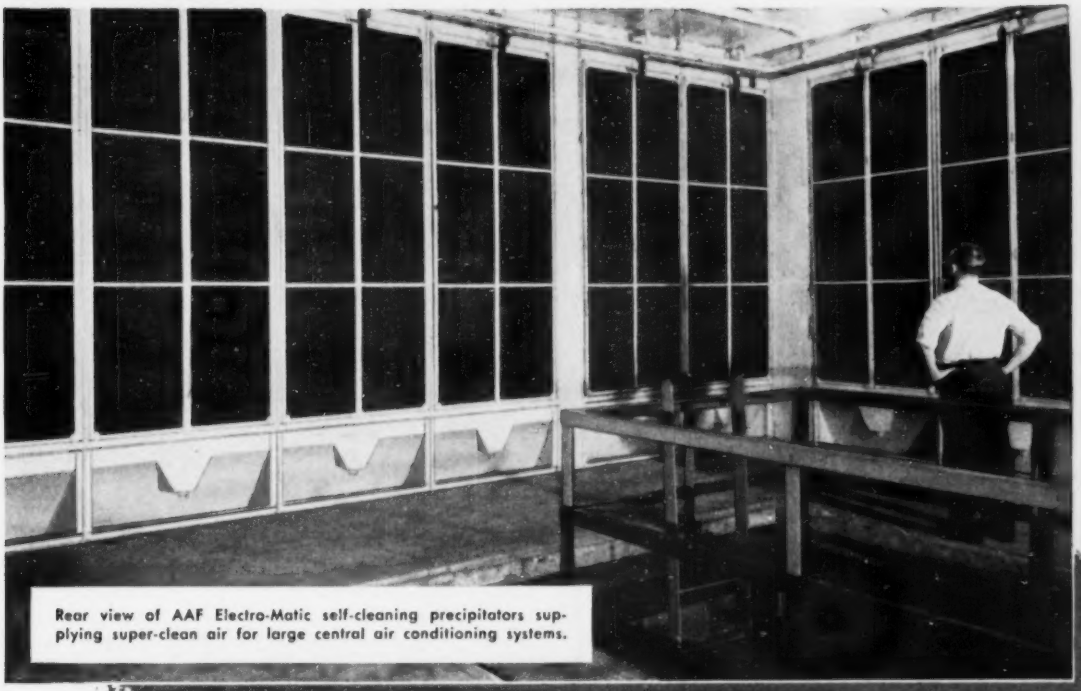
1903 50th Anniversary 1953

ROBERT REINER INCORPORATED

10 MINUTES FROM TIMES SQUARE

Take Bus Nos. 61 or 67, from Platform No. 60, Port Authority Bus Terminal, 41st Street and 8th Avenue, New York City. Get off at Pleasant Avenue, Weehawken, New Jersey. From there turn left and walk through the underpass up to Gregory Avenue . . . TELEPHONE: UNION 7-0502, 0503, 0504, and 0505. From New York City call LONGACRE 4-6882.

FOUNDED IN 1903 — 550-564 GREGORY AVENUE, WEEHAWKEN, NEW JERSEY



Rear view of AAF Electro-Matic self-cleaning precipitators supplying super-clean air for large central air conditioning systems.

Dust and Smoke Giving You a "Dirty" Deal?

AAF Electro-Matic precipitators put a stop to spoilage from soilage

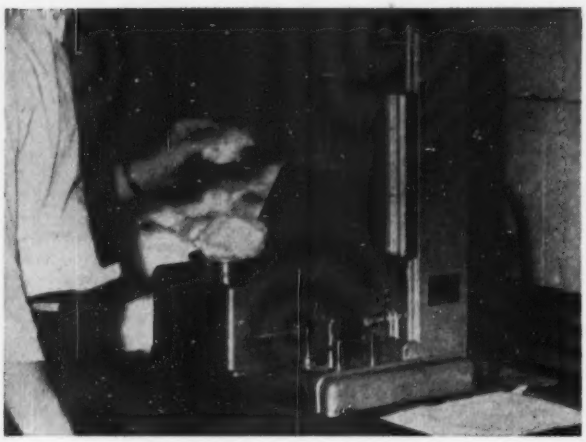
Dust, soot and smoke are the sworn enemies of "quality" —a major cause of reject in spinning, weaving and dyeing operations. That's why scores of textile mills depend on AAF Electro-Matics to provide super-clean air for their air conditioning and humidifying systems.

The Electro-Matic is a high efficiency electronic precipitator that collects smoke with the same ease as larger air-borne materials. Its automatic self-cleaning action permits continuous operation at peak efficiency. There are no costly shutdowns for washing and re-oiling of collector plates. When Electro-Matics "take over", super-clean air in constant, uniform volume is assured *automatically.*

Fewer rejects, lower maintenance costs and peace of mind are all yours the day Electro-Matics go to work—because that's the day dust, soot and smoke are barred forever from your air conditioning system. For complete information on Electro-Matic precipitators, call your local AAF representative or write direct for Bulletin No. 250.

Visit AAF Booth No. 843
American Textile Machinery Exhibition
April 26—May 1
Atlantic City

American Air Filter
COMPANY, INC.
275 Central Avenue, Louisville 8, Kentucky • American Air Filter of Canada, Ltd., Montreal, P. Q.



SHADOGRAPH Weighs Cotton Samples Faster . . .

Speed and accuracy in weighing 50-grain samples of cotton for use in the Micronaire test have made EXACT WEIGHT'S SHADOGRAPH the favorite of the textile industry for this operation. Reports from the field indicate up to 100% increase in testing speed after the installation of a SHADOGRAPH. Shadow-edge indication is projected by a beam of light, eliminating all friction of indicating mechanism and increasing visible accuracy over 300%. Reading can be made from any angle, without danger of parallax. SHADOGRAPH's greater speed is achieved through a reduction of lever movement and by the action of an adjustable damping device. Sensitive to one grain. Send coupon today for details.

Exact Weight Scales

Better quality control
Better cost control

THE EXACT WEIGHT SCALE COMPANY

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Please send information on SHADOGRAPH 4104-A

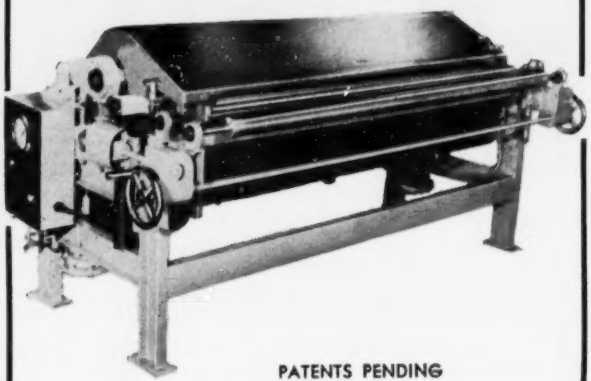
Name .....

Address .....

City ..... Zone ..... State .....

Slash

Your *Slasher* Costs!



PATENTS PENDING

Announcing the NEW GRIFFIN SIZING MACHINE which increases loom efficiency—lowers slasher costs.

ELIMINATE congealing of size . . . . exhaust fans, hoods and duct work . . . . slasher cloth changes . . . . dilution and "breaking down" of size . . . . floating fibres in size pan.

NO ROLLING, TAPING OR RIBBON FORMATIONS

- Size pan completely covered—excludes cold air, keeps in warm, moist air.
- Rubber-covered, pneumatically loaded squeeze rolls.
- 20 gallon, insulated, stainless steel size pan.
- No corrosive metals exposed to size solution.

Increase your weave room efficiency with the GRIFFIN SIZING MACHINE. See it at the American Textile Machinery Exhibition.

Bachmann—Uxbridge Exhibit
Stage section spaces
712 - 719

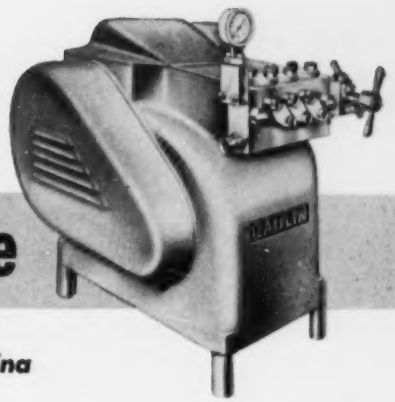
TEXTILE MACHINERY EXHIBITION — ATLANTIC CITY APRIL 26-30 1954 — AMERICAN TEXTILE MACHINERY ASSOCIATION

IRA L. GRIFFIN & SONS

POST OFFICE BOX 1576
Charlotte, N. C.

The Truth about

Gaulin Homogenized Size



As Revealed by 33 North and South Carolina Mills in an STA Questionnaire

We've been telling you how a Gaulin Homogenizer can help you make a *better yarn* at *lower cost* for some years now. We've repeated what hundreds of operators have reported to us. But don't take our word for it alone. Here are the facts — the personal experiences of 33 Mills as revealed in an STA questionnaire. Draw your own conclusions.

Q. *Is your entire production on homogenized size or partly on homogenized size?*

A. 90% of mills with homogenizers have their entire production on homogenized size.

Q. *What type starch is used?*

A. 78.7% of mills reported used pearl starch
7.1% used potato starch
7.1% used thin boiling and pearl
7.1% used thin boiling

Q. *Do you notice an improvement in the uniformity of added size on homogenized warp?*

A. 86.4% report an improvement
13.6% report no change

Q. *Is there a decrease in hard size through the use of homogenizers?*

A. 78.1% report decrease of hard size
21.9% report no change

Q. *Is there any noticeable difference in size in the yarn with homogenized size?*

A. 56.8% report improvement in penetration
43.2% noticed no difference

Q. *Is there improvement in the quality of the warp yarn?*

A. 50% indicated improvement
16.6% very little improvement
33.4% no change

Q. *How long do you store your homogenized size before its usefulness is gone?*

A. 8.3% — 8 hrs.
25% — 16 hrs.
41.6% — 48 hrs.
8.3% varies
16.8% will not hold size
One mill reports that they have checked and held size 56 hrs. and still were able to use the size.

Q. *Is the viscosity of homogenized size more uniform than regular size cooked in the conventional manner?*

A. 65% report more uniformity
36% report no change

Q. *Do you consider your homogenizer a worthwhile investment?*

A. All mills report that they consider it a worthwhile investment.

Q. *How long do you consider it takes to pay for this machine?*

A. 23.1% agree to 6 months
23.1% agree to 12 months
38.4% agree to 18 months
7.7% agree to 24 months
7.7% agree to 36 months

Q. *Are the savings in starch only or are there other savings?*

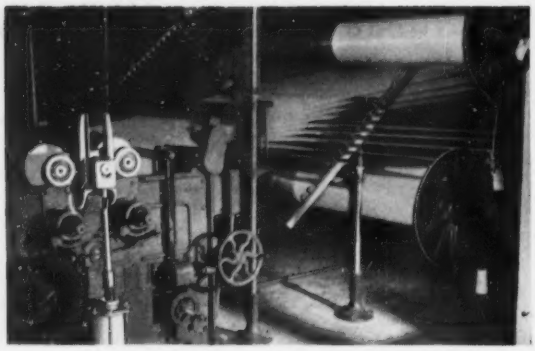
A. All mills agree that starch is the basis for the largest amount of savings. Other savings are listed as preparation time, 2nds due to hard size, steam due to short cooking cycle, week-end dunking of size.

For more information on Gaulin guaranteed performance, write today.

SYNTHETICS — WORSTEDS

Mills are now preparing more uniform sizes for Synthetics and Worsteds, too, with a Gaulin Homogenizer. Sizes are made finer, faster and at substantially lower costs according to field reports.

Manton-Gaulin
MANUFACTURING COMPANY, INC.
68 GARDEN ST., EVERETT 49, MASS.
World's Largest Manufacturer of Homogenizers, Triplex Stainless-Steel High Pressure Pumps, and Colloid Mills



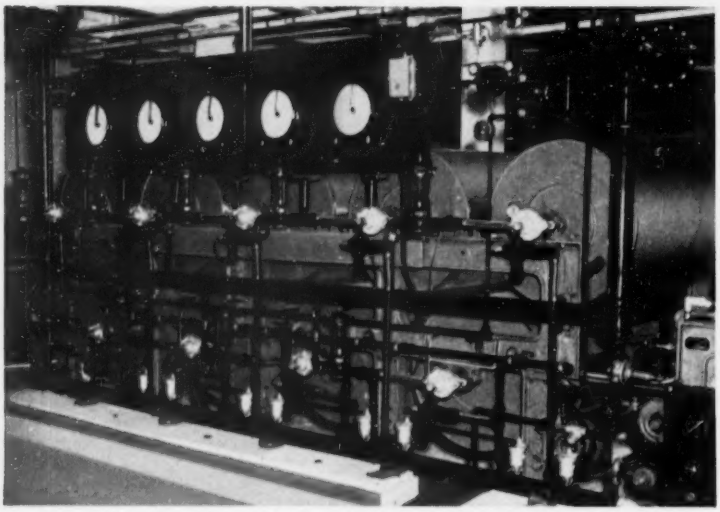
PNEUMATIC LOADING on squeeze rolls. At right is shown DOUBLE-DECK CREEL for synthetic filament warps.

PROVED

IN ACTUAL MILL OPERATIONS

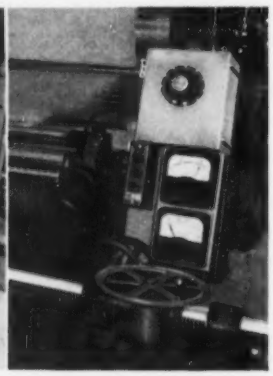
. . . a faster, more versatile quality producer

THE WPF&M MULTI-CYLINDER SLASHER



INDIVIDUAL TEMPERATURE CONTROL on each cylinder insures high quality. The polished stainless steel cylinders with welded-in steel heads may be operated at pressures up to 35 p.s.i.g.

PUSH BUTTON CONTROL of multi-motor drive provides smooth and fast response to necessary speed changes. *No mechanical friction clutch.*



TENSION CONTROL PANEL conveniently located. TRAVERSING TAILSTOCK with handwheel to move arbor in and out.

In actual mill operations, the versatile WPF&M Multi-Cylinder Slasher has proved it can produce a consistent, high-quality warp on a wide range of natural, synthetic or blend fibers at high speeds and low operating costs.

The Multi-Cylinder Slasher is designed for and furnished with a superior slasher drive . . . the mill-proved multi-motor drive which completely eliminates the friction clutch and friction compensating devices along with friction maintenance. This all-electric drive provides a smooth constant tension wind-up of the loom beam and packs more yards on the loom beam.

This WPF&M Multi-Cylinder Slasher is one of the complete line of modern Slashers manufactured by the West Point Foundry & Machine Co.—specialists in Slasher Room machinery and equipment.

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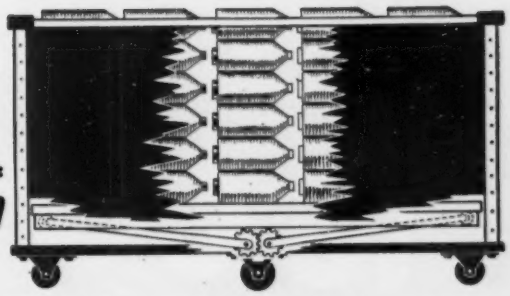

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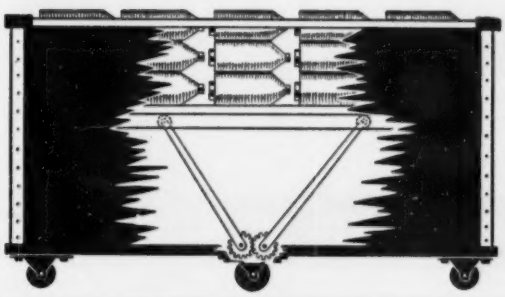

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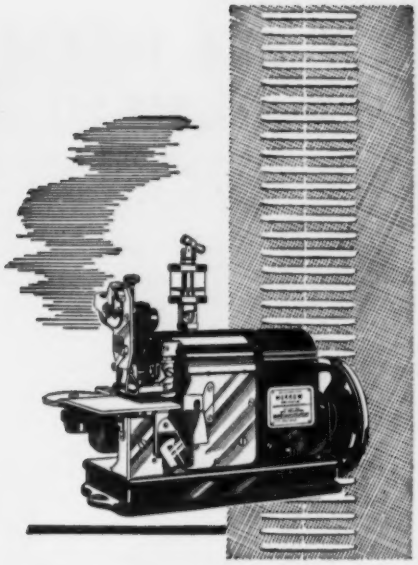

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461. PRECISE WIND MACHINE — Form A-92 describes the Foster Model 75 widely used for winding straight or pineapple cones and tubes of rayon, nylon and other filament yarns. — FOSTER MACHINE COMPANY, Westfield, Mass.

462. TEXTILE MACHINERY PARTS CATALOG —A 24-page illustrated catalog describing the complete line of Dayco and Thorobred textile machinery parts including Cots, Aprons, Loop Pickers, Lug Straps, etc. — DAYTON RUBBER CO., Dayton, Ohio.

467. CARD CLOTHING — 8-page booklet by Benjamin Booth Company describes Strip-O-Matic Card Clothing and its advantages. Write: BENJAMIN BOOTH COMPANY, Allegheny Avenue & Janney Streets, Philadelphia, Pennsylvania.

469. SHORT CUT TO STAPLE FIBER SPINNING — Color brochure shows the ten steps in operation of the Turbo Tow Stapler, gives technical details and diagrams. — TURBO MACHINE COMPANY, Lansdale, Pa.

471. FACTS ABOUT YOUR FLYERS AND SPINDLES — Booklet by Ideal Machine Shops shows how smooth Flyer and Spindle operation can help produce higher and more efficient output, good quality yarn, minimum wear, and larger bobbins. — IDEAL MACHINE SHOPS, Bessemer City, North Carolina.

473. CUSTOM MADE THREAD GUIDES — Illustrated booklet describing uses and physical properties of the "AlSiMag" line of Thread Guides. Advantages fully discussed with picture and specifications of each type — AMERICAN LAVA CORP., Chattanooga 5, Tenn.

474. BALL BEARING COMB BOXES — Southern States Equipment Corp. offers literature on their famous C-1 Ball Bearing Comb Boxes. Description, working principle, cut-a-way views shown. — SOUTHERN STATES EQUIPMENT CORP., Hampton, Georgia.

475. TEXTILE ROLL COVERINGS AND MILL SUPPLIES — Color Booklet by Armstrong shows and describes their complete line of textile roll coverings, including also loom supplies ,mill supplies, Roll covering for Cotton, Silk and Synthetic and Woolen and Worsted systems. An excellent guide book. — ARMSTRONG CORK CO., Industrial Div., Lancaster, Pa.

476. TEXTILE FIBER OPENER FOR COTTON SYNTHETICS, WOOL — New Brochure by Cen-Tennial Cotton Gin Co. gives complete data on the Cen-Tennial Opener which incorporates improvements on the original SRRL Opener. Complete operating procedure is described. — CEN-TENNIAL COTTON GIN CO., Columbus, Ga.

WEAVING, SLASHING . . .

501. LOOMS — An accordion type folder is available entitled "Unfolding to You the World's Largest Line of Looms." Information on all types fully discussed. — CROMPTON & KNOWLES LOOM WORKS, Worcester 1, Mass.

502. COUNTING AND MEASURING DEVICES— Condensed textile catalog illustrating and describing pick counters, hank counters, cut meters, measuring counters. Wide range of counting devices for production recording on all types of textile machinery.— VEEDER-ROOT, INC., Hartford, Conn.

503. WEAVER'S KNOTTER — A catalog on the Boyce Weaver's Knotter giving a few instructions as to its use, recommendation as to the proper type knotter for the various types of yarns, and the spare parts that go to make up the knotter. — A. B. CARTER, INC., Gastonia, N. C.

504. LOOM SUPPLIES — Literature describing complete line of straps, strapping, pickers, dobby cords, sticks, binders, bumpers, brake lining and allied products. — E. H. JACOBS NORTHERN DIV., THE BULLARD CLARK CO., Danielson, Conn.

506. SLASHING HINTS — A 20-page booklet offering helpful hints on warp sizing. Subjects: Size cooking equipment, section beam tension, sizing seivages, cooking, use of split rods, weighing for the mix, tips on cooking equipment, storage in kettles, etc. — SEYDEL-WOOLLEY & CO., 748 Rice St., N. W., Atlanta, Ga.

507. VARIABLE SPEED SLASHER DRIVE — Reeves bulletin G-503 describes their Servo-Control slasher drive which automatically controls tension from creel to beam, and which controls the stretch in the slasher. — REEVES PULLEY CO., Columbus, Ind.

508. LOOM PRODUCTION CHARTS — Convenient celluloid card showing yards per loom per week of 40 hours at various loom speeds. — RALPH E. LOPER CO., Greenville, S. C.

509. MULTI-MOTOR SLASHER DRIVES — Booklet designed to bring the descriptive information on multi-motor slasher drives up to date, and emphasize the improvement in the drive through the use of Roto-trol for the control of winding tension.—WESTINGHOUSE ELECTRIC CORP., 511 Wood St., Pittsburgh 30, Pa.

510. THE ROMANCE OF PRAIRIE GOLD — Attractive illustrated book which tells the story of corn and the uses of corn products to industry.— CORN PRODUCTS SALES CO., 17 Battery Place, New York, N. Y.

511. ALUMINUM BEAMS — Catalog No. 1-21 describes Hayes magnesium and aluminum specialties for the textile industry. Illustrates this company's beams that are one-third the weight of conventional types. — HAYES INDUSTRIES, INC., Jackson, Mich.

517. LOADING SYSTEM — Bulletin 417, on pneumatic loading system for Saco-Lowell slasher size box squeeze rolls, contains installation photo, features, specifications, and prices. — THE FOXBORO COMPANY, Foxboro, Mass.

521. STEEL WARP BEAMS — 20 page Catalog No. 45 illustrating Standard and Special Purpose Warp Beams for the weaving industry, both broad-loom and narrow fabrics. Also Textile Machinery Specialties. — MILTON MACHINE WORKS, INC., Milton, Pa.

524. JOHNSON WARP SIZES — 12 page fully illustrated booklet, describing the 7 cylinder sizer with stretch indicator and finger-tip control of stretch. A point-by-point analysis. — CHARLES B. JOHNSON MACHINE WORKS, Piercy & Holsman Sts., Paterson, N. J.

530. ROTARY UNIONS — New catalog shows how to cut costs, get better sealing, on can dryers, slashers, calenders, etc. Catalog No. 506 entitled "Where Good Connections Count." — PERFECTING SERVICE COMPANY, Atlando Ave., Charlotte, N. C.

536. HOMOGENIZER IMPROVES SLASHING — Pamphlet by Manton-Gaulin Manufacturing Company shows how mechanical conversion of size by the Gaulin method produces better size. Gives installation pictures and specifications.—MANTON-GAULIN MANUFACTURING COMPANY, INC., Everett, Massachusetts.

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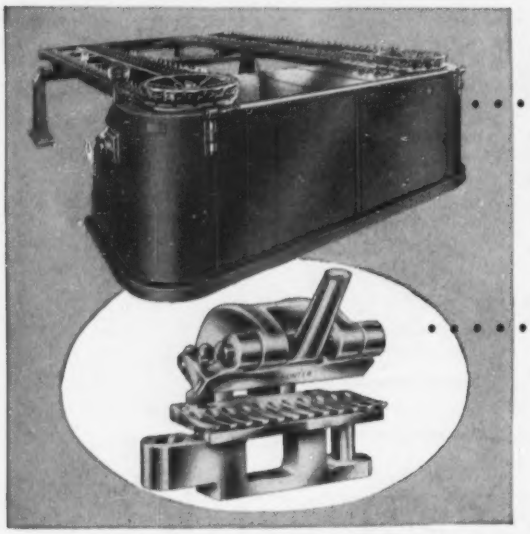

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537. WEST POINT'S HOT AIR SLASHER—Bulletin describes advantages and capacities of new hot air slasher by West Point Foundry and Machine Works. Detailed specification included. — WEST POINT FOUNDRY AND MACHINE WORKS, West Point, Georgia.

538. AIR SLASHER DRYER — Pamphlet by Proctor & Schwartz shows construction and operating details of the Proctor Air Slasher Dryer. Advantages listed and cut-away view shown. — PROCTOR & SCHWARTZ, INC., 7th St. and Tabor Rd., Philadelphia 20, Pa.

539. AUTOMATIC REGAIN CONTROL OF RAYON AND SYNTHETIC FIBRE SLASHING — Technical booklet by Minneapolis-Honeywell gives data on their electronic, Multi-range "Moist-O-Graph" system for controlled regain. Write for No. B54-66, Minneapolis-Honeywell Regulator Co., Station 64, Phila. 44, Pa.

540. SLASHING EQUIPMENT — Brochure by Tower Iron Works shows different types of slashing equipment, enumerating characteristics and advantages of each. — TOWER IRON WORKS, 50 Borden St., Providence 9, R. I.

DYEING, FINISHING CLOTH ROOM . . .

602. CONTROLLED VAT DYEING — Calco technical booklet No. 528 discusses Stabilization of Vat Dyes at Elevated Temperatures, Instrumental and Analytical measurements, Leuco Potentials.—AMERICAN CHEMICAL CO., Calco Cyanamid Division, Round Brook, New Jersey.

606. HYDRAULIC POWER UNITS — Literature describing hydraulic unit, motor, pump, reservoir, valving & small compact unit for operating of hydraulic calenders, presses, hydraulic controls, etc. — B. F. PERKINS & SON, INC., Holyoke, Mass.

610. PROCTOR DRYING MACHINERY FOR THE TEXTILE INDUSTRY — Illustrated, descriptive catalog on all types of dryers for raw stock, warps, package dyed and automatic skein yarn. Also includes Pre-Boarding and Automatic Boarding Machines for hosiery. — PROCTOR & SCHWARTZ, INC., 7th and Tabor Rd., Philadelphia, Pa.

615. HIGH PRODUCTION EXTRACTOR FOR RAW STOCK — YARN — HOSIERY — Descriptive bulletin and full information on automatic Twintainer Extractor with bottom-unloading removable baskets. Machine replaces three conventional extractors, lowers labor costs. — FLETCHER WORKS, INC., Philadelphia, Pa.

616. FINISHING DRIVES — 32-page booklet covers complete drives Westinghouse has engineered for the textile finishing industry. Describes all types of finishing ranges and discusses advantages of Westinghouse drives for these installations. "Packaged" drives for batch processes covered. — WESTINGHOUSE ELECTRIC CORP., 511 Wood St., Pittsburgh 30, Pa.

617. AUTOMATIC CONTROL SYSTEM FOR CONTINUOUS BLEACHING — Illustrated folder describes the new method of controlling the temperature, pressure, and liquid level in the continuous bleach operation. — TAYLOR INSTRUMENT COMPANIES, Rochester 1, N. Y.

620. REGENERATION OF ZEOLITE WATER SOFTENERS — Booklet explains advantages of International's Lixate Process in regeneration of zeolite water softeners. Shows how it cuts costs and does a better job. — INTERNATIONAL SALT COMPANY, INC., Scranton, Pennsylvania.

623. SELVAGE GUIDER — The Marshall and Williams positive overfeed and selvage guider is described in a brochure as being developed to meet the most modern requirements of the textile finishing industry. Full description, pictures and advantages discussed. — MARSHALL AND WILLIAMS CORPORATION, 46 Baker Street, Providence 5, R. I.

627. SINGLE APRON STOCK DRYERS — Folder presenting the latest idea in automatic drying which every mill having drying problems can profitably use to meet modern manufacturing conditions. — C. G. SARGENT'S SONS CORP., Graniteville, Mass.

631. ELIMINATE DYE-BATH SHOCK — Data sheet by Foxboro shows how woven fabrics and hosiery may be protected from Crow's-feet, uneven shade, creasing caused by too rapid cooling of goods. Write for data sheet, 220-60. — FOXBORO COMPANY, 487 Neponset Ave., Foxboro, Mass.

632. LUG STRAP WASHERS — Series 1-C illustrated bulletin detailing right and wrong application and use of washers. — E. H. JACOBS NORTHERN DIV., Danielson, Conn.

637. BALL BEARING TURN TABLE — Leaflet describing this 48" diameter steel turn table for use in mills where the cloth is delivered in rope form to trucks and the trucks are placed in position ahead of a Scutcher or Cloth Opening Machine. Advantages discussed. — BIRCH BROTHERS, INC., 32 Kent St., Somerville, Mass.

638. DYEING AND FINISHING MACHINES — Booklet by James Hunter Machine Company shows pictures, applications, and advantages of following: "Vapo Jet" Dyer; "Hunter Dye Beck"; "Flexreel" Rope Washer; Continuous Cloth Washer; Model "S" Dye Kettles; Compartment Washer; Fulling Mill; Top Dyeing Machine; "Uniflow" High-speed Tenter Dryer; Cloth Carbonizer: — JAMES HUNTER MACHINE CO., North Adams, Mass.

639. ROTARY DYEING MACHINE — Booklet No. 425 illustrating the features of these stainless steel machines used for dyeing hosiery, hats, gloves, socks, etc. — SMITH, DRUM & CO., Allegheny Ave. at 5th St., Philadelphia 33, Pa.

653. GUIDERS AND TENSION DEVICES — Illustrated and described are the Mount Hope Precision Guiders and open width Tension Devices used for accurate, straight line guiding of open width goods. Gulletin SG-PG. — MOUNT HOPE MACHINERY CO., 15 Fifth St., Taunton, Mass.

654. ION EXCHANGERS — Bulletin details a general history of ion exchange, gives data on proper selection of ion exchangers and lists general applications in the treatment of water. — PERMUTIT COMPANY, 330 West 42nd Street, New York 36, New York.

655. PAPER TUBES FOR YARN AND CLOTH —Complete data to help you solve your paper tube problems. Overnight delivery of yarn and cloth paper tubes and boards. Shows how warehousing of these items can be avoided. — TEXTILE PAPER PRODUCTS, Cedartown, Ga.

DYESTUFFS, CHEMICALS, SOAPS . . .

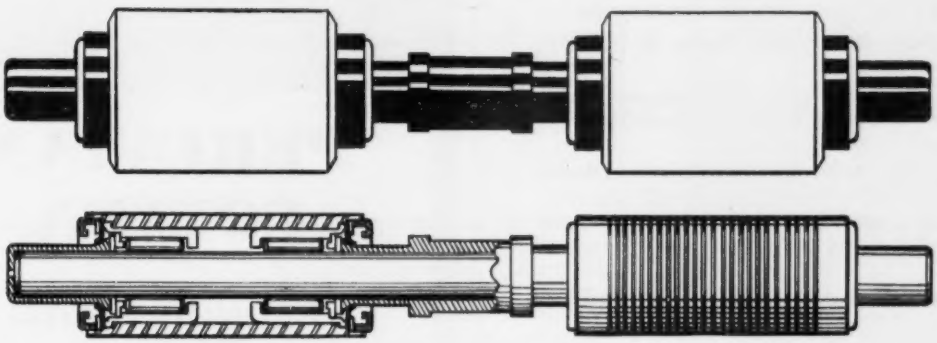
700. COTTON FINISHING OILS — New booklet by Twitchell devoted to finishing Sanforized Fabrics contains such specific data as re-wetting speed, imparted softness, resistance to yellowing, and "balance" of these properties.—EMERY INDUSTRIES, INC., Dept. 5, Carew Tower, Cincinnati 2, Ohio.

701. MAGNESIUM APPLICATIONS—Case history information on magnesium application in the textile field, published bi-monthly with latest developments in the magnesium industry.—DOW CHEMICAL CO., Midland, Mich.

The New **ANTI-FRICTION** **PRECISION ROLLS**

TREAT THEM IN EVERY WAY AS YOU DO SOLID ARBORS, BUT FORGET: LUBRICATION & FRICTION

THE GREASE IS SEALED IN—THE LINT IS SEALED OUT



1. A straight, hardened and ground shaft is the backbone of this roll.
2. Each cot cylinder is supported on the shaft by two specially designed needle bearings. (no rock)
3. The needle bearings have a built-in thrust element, all operating in a sealed lubricant.
4. Flexible seals operate with a light tension against a radius on shaft.
5. The shaft assembly is larger on the bearing side of seal, while smaller on the open side.
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7. Cots are applied directly on the roll, no removable shells.
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705. THEORETICAL AND APPLIED SILK-SOAKING — Attractive 23-page booklet outlining methods of silk-soaking and outlining investigation on the soaking, back-winding and degumming of silk. — HART PRODUCTS CORP., 1440 Broadway, New York 18, N. Y.

706. RHONITE RESINS — Booklet describes the Rhonite Resins as being developed to impart hand to fabrics ranging from stiffness through full resiliency to silky suppleness, depending on the demand of the season. Full information and uses given. —ROHM & HAAS COMPANY, Washington Square, Philadelphia, Pa.

710. DEPUMA — An odorless, viscous, non-evaporating emulsion which is highly efficient as an antifoam, useful in all phases of dyeing and printing.— AMERICAN ANILINE PRODUCTS, INC., 50 Union Square, New York, N. Y.

713. LIOVATINE ED — Vat dyeing assistant increasing penetration and level dyeings with maximum yield of color. — SANDOZ CHEMICAL WORKS, 61 Van Dam St., New York City.

714. NEW SODA ASH BULLETIN — 64-Page edition contains both new material and revisions of previously used data covering the subject. Ask for Bulletin No. 8. — SOLVAY SALES DIV., 40 Rector St., New York 6, N. Y.

715. AQUAROL AND ARKANSAS PRODUCTS — Bulletin on Aquarol water repellent finish with method of preparing bath; also on other Arkansas products for cotton, wool, silk and yarn, hosiery processing.— ARKANSAS CO., INC., Newark, N. J.

721. SURFAX 1288 — Product data sheet explains this useful wetting and rewetting agent. Described as being water soluble at all temperatures and is a highly concentrated, economical surface active agent. — E. F. HOUGHTON & CO., 303 W. Lehigh Ave., Philadelphia, Pa.

727. COLOR PRINCIPLES — Booklet available from Sandos Chemical describes the fundamental principles of color and its measurement. Booklet has been adopted by several of the leading textile schools. — SANDOZ CHEMICAL WORKS, INC., 61 Van Dam Street, New York 13, N. Y.

728. UNIQUE YARN AND DYEING SERVICE— Booklet by Franklin Process tells why Franklin Process Yarn Dyeing Service is one of the top package yarn dyeing services. Also includes table showing relative fastness of dyestuffs used on various fibers. — FRANKLIN PROCESS CO., 564 Eddy St., Providence, R. I.

729. STATIC AND STATIC CONTROL — Papers deal with historical background of static electricity and the problems caused by it along with methods of controlling them. — DEXTER CHEMICAL CORP., 819 Edgewater Road, New York 59, N. Y.

733. WOOL OILS — Twin booklets by Proctor and Gamble tell of the influence of wool oils in producing quality yarns and fabrics, and of Proctor and Gamble's Proxol T, an outstanding wool oil. — PROCTOR AND GAMBLE DIST. CO., Cincinnati, Ohio.

734. BLEACHING WITH PEROXYGEN CHEMICALS — Bleaching methods for cotton, rayon, nylon and animal fibers are comprehensively treated in Reeco Research and Development Dept., Bulletin No. 52, now available. — BUFFALO ELECTRO-CHEMICAL CO., INC., Station B, Buffalo 7, New York.

745. RAPIDASE FOR DESIZING — Bulletin explaining in detail the properties and characteristics of Rapidase. — WALLERSTEIN CO., INC., 180 Madison Avenue, New York 16, N. Y.

749. WATER SOLUBLE GUMS — Booklet giving the origin, gathering, marketing an duses of water soluble gums. This booklet No. 23 is beautifully illustrated, and is one of the few treatises on the subject. — JACQUES WOLF & CO., Passaic, N. J.

753. TRITON X-100 — Booklet available describing this highly concentrated detergent and wetting agent. Main uses fully discussed and chemical properties brought out. — ROHM & HAAS COMPANY, Philadelphia 5, Pa.

757. THE CHEMISTRY OF CYNANURIC CHLORIDE — Very comprehensive technical text by American Cyanamid Co. Gives Physical Properties, Reaction Chart, Chemical Properties, Potential Applications, Toxicity, Table of Alcohol Reactions, Table of Amine and Related Compound Reactions. — AMERICAN CYANAMID CO., 30 Rockefeller Plaza, New York 20, New York.

763. TEXTILE CHEMICALS — Booklet, well executed and in color, tells of American Viscose Company's "Avisco" textile chemicals for lubricating, softening, static control, sizing and finishing. — AMERICAN VISCOSE CORPORATION, Textile Research Department, Marcus Hook, Pa.

766. DU PONT PEROXIDE BLEACHING SYSTEMS — New book illustrating and describing this continuous peroxide bleach system. Layouts and other information included.—E. I. DU PONT DE NEMOURS & CO., ELECTROCHEMICAL DEPT., Wilmington, Del.

768. TEXTILE CHEMICALS — Buying guide and reference book giving facts about Amalgamated Products, the fabrics on which they give best results, their proper application, and their chemical composition. — AMALGAMATED CHEMICAL CORP., Philadelphia 34, Pa.

769. SURFACE TENSION DEPRESSANT — The booklet, "Mercerizing and Alkamerce — The Ideal Dry" which can be used as a wetting agent; a dye leveling agent, a penetrant in package dyeing. — HART PRODUCTS CORP., 1440 Broadway, New York, N. Y.

773. TECHNICAL CHEMICAL DATA SHEETS — Complete set for dyeing, printing and finishing operation, showing major operations, performance and advantages. — ONYX OIL & CHEMICAL CO., 190 Warren St., Jersey City 2, N. J.

774. ROYCE TEXTILE CHEMICALS — This booklet briefly describes the leading Royce products for textile processing, printing, dyeing and finishing. — ROYCE CHEMICAL COMPANY, Carlton Hill, N. J.

KNITTING . . .

801. THE WILDMAN SINGLEHEAD FULL-FASHIONED HOSIERY MACHINE — Literature on request from the WILDMAN MFG. CO., Full-Fashioned Division, Norristown, Pa.

808. REINER WARPER — Full width and sectional warpers for all requirements in the knitting and weaving industry fully described in recent catalog. — ROBERT REINER, INC., Weehawken, N. J.

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818. FORGED HEAD ALUMINUM BEAMS — Bulletin 49-A shows new beam capable of holding high yardage of nylon and rubber warps, with specifications. Also describes permanent mold aluminum tricot and section beams. — MILTON MACHINE WORKS, INC., Milton, Pa.

823. VARIABLE STRIPER — Booklet available describing Supreme's complete line of automatic Variable Stripers and Pattern Placer Machines. — SUPREME KNITTING MACHINE CO. INC., 105 Johnson Ave., Brooklyn 6, N. Y.

828. THE KIDDE KNITTER — Bulletin describing this newest in Raschel-type warp knitting machines and higher production attained with it.— KIDDE MANUFACTURING CO., INC., Farrand St., Bloomfield, N. J.

SEWING MACHINES . . .

924. BUTT-TACKING SEWING MACHINE — Booklet describes an operating installation of the Merrow single thread butt-tacking sewing machine. Gives performance data, and advantages of butt-tacking. — Write: THE MERROW MACHINE COMPANY, 28 Laurel Street, Hartford, Connecticut.

MATERIALS HANDLING . . .

1003. CASTERS AND WHEELS — 192 pages, describing casters and wheels suitable for all types of industrial applications. Every mechanical engineer and purchasing agent should have this. — DARNELL CORP., LTD., Long Beach 4, Calif.

1004. PITTSBURGH COLLAPSIBLE CARGOTAINERS — Stacked they lock in place and permit visible inventory; collapsed they rest in small area. Base permits entry by all types of lift trucks. Write for brochure MH-15. — PITTSBURGH STEEL PRODUCTS COMPANY, Pittsburgh 30, Pa.

1006. LANE CANVAS BASKETS — 16 page illustrated booklet describing the Lane line of canvas baskets for textile use.—W. T. LANE & BROTHERS, Poughkeepsie, N. Y.

1007. OVERHEAD HANDLING EQUIPMENT — 56 pages of illustrations showing successful applications of monorail systems to meet every kind of handling problem. — THE AMERICAN MONORAIL CO., 13106 Athens Ave., Cleveland 7, Ohio.

1008. CASTERS AND WHEELS — An illustrated booklet with complete specifications showing a complete assortment of Cotton Textile Casters. — THE COLSON CORP., Elyria, Ohio.

1010. CONVEYOR KEY BOOK — a guide to production "step-ups" now possible with modern conveying. Shows time-and-effort savings. Well illustrated with photos showing plant layouts and sketches showing where, how and why different types of conveyors are used for maximum results. — LOGAN CO., 1115 Franklin St., Louisville, Ky.

1011. TEXTILE TRUCKS — Booklet describing doff boxes, frames and trucks, yarn, waste, platforms, conditioning, steep lap, fiber, utility trucks, etc. Uses and description. — EXCEL TEXTILE SUPPLY CO., Lincolnton, N. C.

1013. "A STORY OF TRACTOR TOOLS AND THEIR USE" — Comprehensive illustrated guide effectively present in cartoon-style the many principal uses for this type of Equipment. — HYSTER CO., 2903 N.E., Clackamas St., Portland 8, Ore.

1030. CDF RECEPTACLES — This 32-page catalog, R-11, profusely illustrated in color, shows Continental-Diamond's line of boxes, trucks, cans, barrels, baskets and trays. Complete description and specifications are given on each item. — CONTINENTAL-DIAMOND FIBRE CO., Newark 11, Del.

1032. ELECTRIC CHAIN HOISTS — Bulletin 852 describing Robbins & Myers Type "JC" Electric Chain Hoists. Capacities 500, 1000 and 2000 pounds. —ROBBINS & MYERS, INC., Hoist & Crane Div., Springfield, Ohio.

MISCELLANEOUS . . .

1102. BALING PRESSES — An illustrated folder describing this manufacturer's complete line of balers for all materials. Both Downstroke and Upstroke models. — ECONOMY BALER CO., Ann Arbor, Mich.

1103. UNBRAKO SCREWS — Illustrated 16-page booklet No. 570 gives data on Unbrako hollow set screws, with knurled point, self-locking features. Includes miscellaneous screw and locking nut data.— STANDARD PRESSED STEEL CO., Jenkintown, Pa.

1108. FABRICATION OF U. S. STAINLESS STEELS — 136-page book covering use of stainless steel in textile equipment from cutting to cleaning. Includes corrosive-resistance tables for chemicals. — CARNEGIE-ILLINOIS STEEL CORPORATION, Pittsburgh, Penn.

1111. BRUSHES — A 26-page booklet is now available which describes and illustrates this manufacturer's line of brushes for the textile industry.— GASTONIA BRUSH COMPANY, Gastonia, N. C.

1112. THE RANDOM WEB PROCESS — Bulletin No. 101 describes the Rando-Webber and Rando-Feeder machines, and discusses the origin and development of the Random Web process which produces a non-oriented web suitable for processing into felts, wadding, heavy mats and non-woven fabrics on a continuous basis. Engineering data and cut-away diagrams. — CURLATOR CORPORATION, Textile Division, 565 Blossom Rd., Rochester, N. Y.

1113. MACHINE KNIVES — Catalog and price sheets describing this company's line of knives for use on textile machinery. — TAYLOR-STILES & CO., 21 Bridge St., Riegelsville, N. J.

1115. TEXTILE WRAPPING MACHINES — Brochure describing automatic wrapping machines for various types of textile products, including the new Hayssen V-Type Underfold, most protective package made. — HAYSSEN MANUFACTURING CO., Sheboygan, Wisconsin.

1122. BALING PRESSES — Bulletins available describing this company's line of motor-driven and hydraulic baling-presses for finished-goods, textile fibers, wool, and waste of all kinds. — LOGEMANN BROTHERS CO., 3150 West Burleigh St., Milwaukee, Wisc.

SUPPLIERS & News
WHAT THEY ARE DOING

(Continued from page 74)

Head of the dealership is Ray J. Finn, president.

Henry C. Van Brederode, vice-president in charge of the fabric division, has resigned from **The Celanese Corp. of America** to join N. Erlanger, Blumgart & Co., Inc. Celanese has announced that the company-wide accident frequency rate for 1953 dropped to 1.3 for each million man-hours worked, in comparison with a 1952 average of 8.4.

S. Jack Davis has been named senior group leader in charge of **The Chemstrand Corp.'s** newly established textile research section of the research department.

Lauren E. Wurster, with the firm since 1924, has been promoted to treasurer of **The Colson Corp.** He succeeds A. L. Irish, retired.

Columbia-Southern Chemical Corp. has appointed William Carpenter, St. Louis district sales manager. He succeeds Brooks M. Dyer, now assistant director of sales.

Commercial Factors Corp. has elected Reinald Kaufmann and Walter M. Kelly, both vice-presidents, to the board of directors.

Container Corp. of America has formed a new company in Venezuela under the name of Corrugadora de Carton, S. A. The plant will be located in Maracay and is expected to be in operation by this fall. Carl M. Blumenschein was recently elected vice-president and controller of Container.

F. E. Glotfelty and R. G. Ruark are new vice-presidents of **Corn Products Refining Co.** Mr. Glotfelty was also made a director of the firm. He has been with the company since 1920; Mr. Ruark joined in 1944.

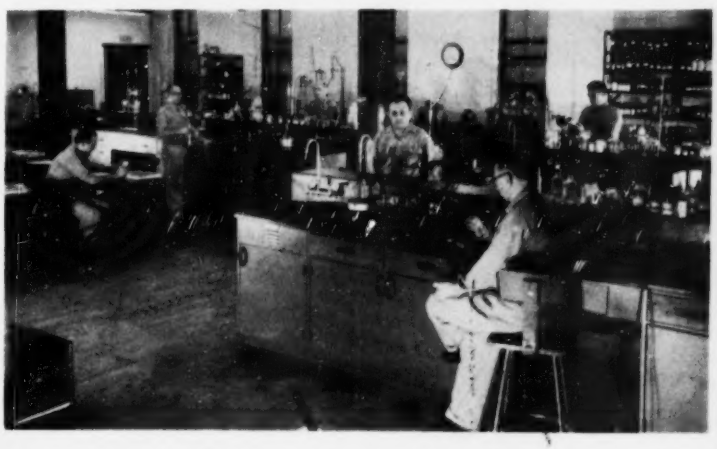
A new southern California office and warehouse has been opened by **R. & J. Dick Co.** at 5276 Atlantic Blvd., Maywood (Los Angeles), California. A complete inventory of power transmission and conveying equipment, including service facilities, will be maintained.

Phillip Nathanson has been named to head up a newly created research and development department in the Lurex Division of **The Dobeckmun**

Hart Products' New Jersey City Plant and Lab

Hart Products Corp. has completed installations of new equipment in its half-million dollar plant and laboratory at Jersey City. As well as performing basic research, the laboratory is also conducting special experiments in the field of anti-static agents, permanent water repellents, organic sequestering agents, and ethylene oxide condensates.

Pictured below is a scene in one section of the chemical manufacturer's new laboratory.



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SPECIALIZED ENGINEERING
SPECIALIZED EXPERIENCE
SPECIALIZED MACHINERY FOR TWISTING BUNCHING STRANDING FORMING AND LAYING IN THE TEXTILE • WIRE CORDAGE AND MANY OTHER INDUSTRIES
WRITE TODAY. YOUR INQUIRY WILL GET PROMPT ATTENTION.
HASKELL-DAWES MACHINE CO., INC.
2231 E. ONTARIO ST.
PHILADELPHIA 34
PA.

NOW Constant Tension From Start To Finish In Winding Roll-Fed Material

New HOBBS "ALQUIST" WINDER

Never Before Anything So Efficient · Simple · Versatile

This is your chance to obtain a higher quality of wound material than ever before – and to save substantially on operating and maintenance costs at the same time.

You've never seen anything like the Hobbs "Alquist" Winder. It's in a class by itself. No other winding device can match it for simplicity, efficiency and flexibility.

OPERATES ON A. C.

Here is a squirrel cage three-phase A. C. motor, flange mounted to a gear reducer. You connect it *directly* to your rewind shaft. It is entirely independent of the main machine drive. You plug it into your present three-phase power outlet – no transformers or converters to bother with. Then you set a knob to the desired tension and walk away.

AUTOMATICALLY SENSES TORQUE

From the start to the very finish of your rewind operation, the "Alquist" constantly and accurately maintains the desired tension – protects even the most delicate fibers and synthetics from stretching, breaking or contracting. Automatically the "Alquist" senses the increase in torque as the roll diameter builds up and it slows down the speed of the shaft in direct proportion. Constant tension can be maintained in a roll build-up of as high as 10 to 1.

ECONOMICAL, FLEXIBLE

Power utilization of the "Alquist" is as high as 80%, approximately four times greater than other types of winders. This means important savings in energy. Maintenance is as slight as with any normal A. C. motor – there are no brushes or tubes to contend with. The "Alquist" is compact, saves you floor space. It is clean, there are no belts to slip and stir up dirt. It is flexible – connect it directly to the rewind shaft, or remotely by chain and sprockets. And it needs no supervision, saves you labor costs.

PROVED IN TEXTILE USE

The "Alquist" Winder already has been field-tested and proved in many textile operations. You can buy an "Alquist" to handle textile materials of any type or weight and to meet any production requirement.

Find out for yourself just why the Hobbs "Alquist" Winder can make such a big difference – how it can give you increased production through *positive* quality control. Mail coupon below for free information. No obligation.

See The "Alquist" In Action, Booth 1017—Textile Show

HOBBS MANUFACTURING CO.
64 Salisbury St., Worcester 5, Mass.
EST. 1883

Send booklet on the new Hobbs "Alquist" Winder.

Name ..... *Title* .....

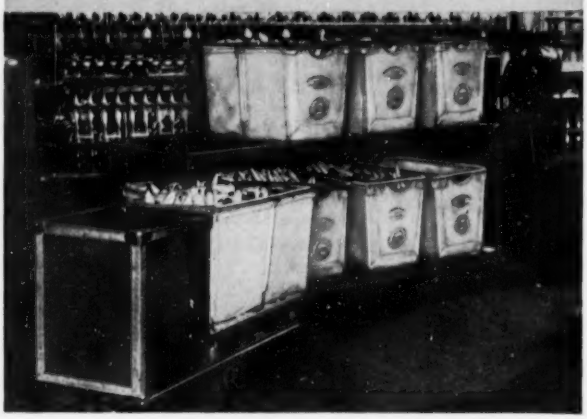
Company .....

Address .....

---

for the best in CANVAS doffer's boxes

LOOK FOR **Lane**



Specially designed for use with doffer's trucks, *only* this economical Lane Style 20 Doffer's Box incorporates *all* these quality features for *long, dependable service at very low cost:*

- Full-capacity body of Lane-woven duck—with deeply-embedded stitches.
- Light-weight, extra-strong spring-steel frame with rugged, flexible hardwood bottom.
- Rounded rivets prevent snags and wear at all points.

STANDARD DIMENSIONS
26" long, 16" wide, 20" high

Lane canvas baskets, hampers, and trucks are *built to take it, built to last!*
See your Lane distributor or write . . .

8877

Canvas Basket Craftsmen Since 1894

Lane

THE LANE BASKET

W. T. LANE & BROS., INC., Poughkeepsie, New York

SUPPLIERS News
WHAT THEY ARE DOING

Co. The department will make its headquarters at the company's offices at 250 W. 57th Street, New York City.

Oliver P. Beckwith, formerly director of quality control at Alexander Smith, Inc., has joined **Fabric Research Laboratories, Inc.,** as a staff member. He will be in charge of a newly created quality control group, designed to provide a consulting service in that field to industry.

John T. Duffy has joined the sales staff of **N. T. Gates Co.** and will work in the industrial sales division, his territory being the greater Delaware Valley area. Mr. Duffy was previously with Materials Handlers, Inc.

Jess B. Kilpatrick was recently named salesman for the southern division of **H. F. Livermore Corp.,** with headquarters at 137 Vanderbilt Circle, Greenville, S. C. His territory includes southern Alabama, south Georgia, southern North Carolina,

Mr. Kilpatrick

and South Carolina. Mr. Kilpatrick's mill experience includes past associations with J. P. Stevens & Co., Inc., in Greenville, Deering Milliken, Dan River Mills, and with the Dover group in Shelby, N. C. More recently he was sales representative for the Morris Fur Co.

Sales representatives of General Dyestuff Corp. and Antara Chemicals, sales divisions of **General Aniline & Film Corp.,** recently attended a general sales meeting in Albany, N. Y. This is the first event of its kind in the memory of the oldest employees of the Rensselaer plant. Sumner H. Williams, vice-president and general sales manager, said the main objective of the meeting was "to sharpen our salesmanship by increasing our general knowledge of all phases of

New Laurel Antistatic Agents—

REGENT CONING OIL—
SPINOL RL

give excellent control and lubrication

REGENT CONING OIL—
for Orlon, Dacron, Acrilan, Nylon, and other synthetic filament or spun yarns. Improves uniformity and knitting properties. Also softening agent for after processing.

SPINOL RL—
for Orlon and Dacron fibers and blends. Ideal as stock lubricant prior to spinning and as yarn lubricant before knitting. No adverse effect in dye bath or on shades.

Both Regent Coning Oil and Spinol RL may be used as received or in emulsion. May be readily removed in regular scouring operation. Send for working samples and information today.

SOAPS • OILS • FINISHES

LAUREL SOAP MANUFACTURING COMPANY, INC.

Laurel Brand

Wm. H. Bertolet's Sons • Established 1909
2603 East Tioga St., Philadelphia 34, Pa.

Warehouses: Paterson, N.J.; Charlotte, N.C.; Chattanooga, Tenn.

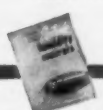
BARBER COLMAN

ELECTRONIC
Humidity Controls

For new or existing systems

- Installed in leading plants throughout the nation for humidifying or dehumidifying
- Extremely sensitive—no drift or shift in control point
- Plug-in type sensing element
- Available with or without aspirating fan
- Two-position or proportioning (modulating) types
- Full complement of associated controls—thermostats, humidistats, control motors, motor-operated valves, program switches.

- Housed in trim, modern steel cabinet, ready to install.



ASK for Bulletin No. F-5173 ... for complete specifications and application data.

Consult nearest Field Office or write:
BARBER-COLMAN COMPANY, ROCKFORD, ILLINOIS, U.S.A.
Dept. D, 1340 Rock Street • Field Offices in principal cities

Automatic Controls • Air Distribution Products • Industrial Instruments
Aircraft Controls • Small Motors • Overdoors and Operators • Molded Products • Metal Cutting Tools • Machine Tools • Textile Machinery

S. A. Officina Meccanica

SANT' ANDREA

NOVARA, ITALY

WORSTED MACHINERY

GILLING
COMBING
REDUCING
ROVING
SPINNING
TWISTING

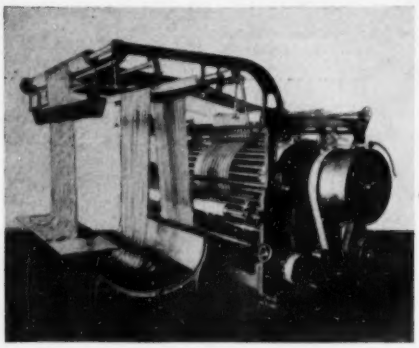
HIGH QUALITY MACHINES
FOR FIRST QUALITY YARNS

30 years experience
Expert Craftsmanship
Prompt Service

SEE THE *NEW*
SANT' ANDREA COMBS
AT THE ATLANTIC CITY
TEXTILE SHOW
BOOTH 830-832

Exclusive Agents for U.S.A., Canada

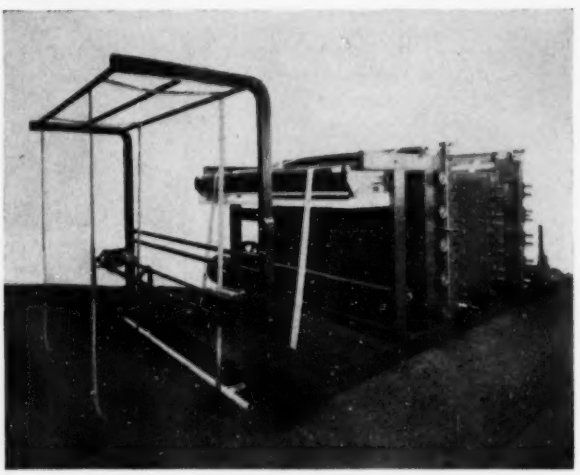
ERNEST L. FRANKL ASSOCIATES
515 Madison Avenue
New York 22, N. Y.



Cylindrical or Planetary Napper

RADICAL DEPARTURE FROM THE OBSOLETE

TO THE NEW



PATENTED VERTICAL HIGH SPEED NAPPER
FOR WOOLENS, COTTONS AND SYNTHETICS.

ANY NUMBER OF WORKERS

CLOTH SPEED OF 100 YARDS PER MIN. UNIFORM NAPPING SIDE TO CENTER. MARKED REDUCTION IN DEAD LOSS.

SAVES UP TO 10 PER CENT IN STOCK.

A Much Fuller Base Nap. Short Thick Cover, No Tendering. Naps Both Sides at the Same Time When Wanted. Graduated Dial Setting for Reproducing Exact Same Finish by Our Patented Automatic Off & On Motorized Mechanism.

See Booth 610, Textile Machine Show, Atlantic City

PARKS & WOOLSON MACHINE CO.

SPRINGFIELD, VERMONT

New Gastonia Plant for Victor Ring Traveler

Victor Ring Traveler Co. recently moved to new quarters at 914 E. Franklin Ave., Gastonia, N. C. The new building is expected to provide for easier operation and is a better location for taking care of the needs of the firm's customers. Manager is Mrs. Leona Brabham.

the company's operations." A new branch building was recently opened in Chattanooga, Tenn., to provide office, warehouse, and laboratory facilities for these two sales divisions. H. A. Webb was named branch manager. E. S. Underwood has joined the San Francisco sales staff.

J. Clint Johnston, with the firm for 13 years, has been appointed general manager and assistant to the president of **Hayssen Manufacturing Co.**

David B. Orcutt, Jr., is now assistant manager for the Richmond sales district of **The Hinde & Dauch Paper Co.** He has been with the firm since 1941.

William L. Gillespie has been appointed Chicago district sales manager, and Victor M. Morgan has been made a sales representative in that district, for **Hooker Electrochemical Co.** Gregory J. Perreault is now a field salesman with headquarters at the New York district sales office.

Hyde-Rakestraw Co. has purchased the **James E. Mitchell Co., Inc.,** of Philadelphia. Clifford S. Clark, vice-president and general manager of Hyde-Rakestraw, has been named to head the sales staff. The company has also announced the removal of its office to 228 N. Chelten Ave., Germantown, Philadelphia, Pa., and the warehouse to Tabor Road and F Street, Philadelphia.

The Cleveland plant of **Industrial Rayon Corp.** recently received an award of merit from the National Safety Council for its outstanding record in the field of industrial safety in 1953. This is the fourth time in the past five years that the plant has been so honored.

Ned P. Kimberly has been appointed district sales manager of the Cleveland area for the Fiber Glass division of **Libbey-Owens-Ford Glass Co.** John A. Webb, formerly field representative for flat glass products in Chicago, is now a sales representative for the Fiber Glass division in New York.

Link-Belt Co. has appointed John D. Riley district manager of its Cleveland office and Harry G. Anderson district manager of the Newark office. Mr. Riley has been with the firm since 1934, Mr. Anderson since 1937.

Dr. Warren C. Lothrop of Newton, Mass., recently was appointed a vice-president of **Arthur D. Little, Inc.** He will be in charge of the research and development division of the firm.

Metallizing Engineering Co., Inc., recently announced plans for a "garden type" plant at Westbury, Long Island, to be completed by July, 1954. It will occupy 65,000 sq ft of a 7-acre tract, and include over 20,000

Hans C. Bick Chemicals

by the originators of

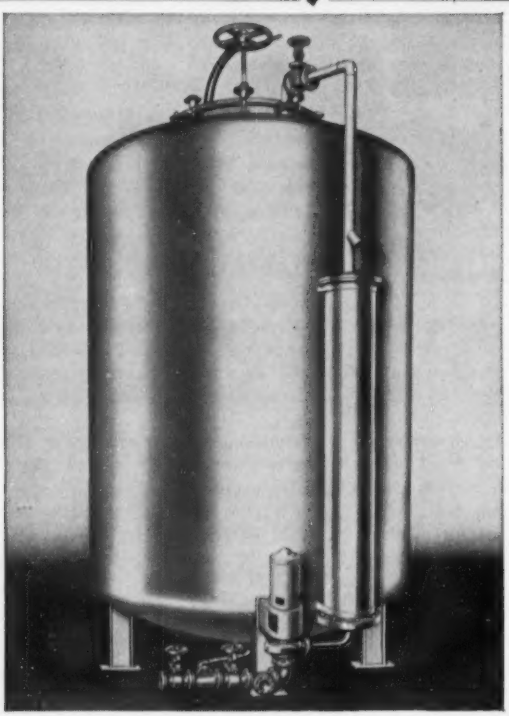
- SCOURING AGENTS • WEIGHTING AGENTS
- DYEING ASSISTANTS • TRICOT FINISH

Good fabrics turn out even better with chemicals by the manufacturing chemists who originated "Nylonized" Finish*—the wonder finish that's bringing new luxury and beauty to a variety of fabrics. For improved processing, Bick also offers you the help of a skilled field staff and laboratory testing facilities. Now's the time to benefit from Bick's 23 years of experience in textile chemicals. From a pound to a carload, Bick chemicals are shipped immediately.

* Reg. trademark of Hans C. Bick, Inc.

Hans C. Bick INC
MANUFACTURING CHEMISTS
Reading, Penna.

The NEW streamlined ALLEN stainless steel "Unit-Package" KIER



The newly-designed ALLEN stainless steel KIER is a complete package unit as pictured above.

1. **Lower cost, faster installation.**
   Completely prefabricated—a good mechanic—a set of bolt wrenches and the job is quickly done.
2. **Better "housekeeping".**
   Nothing but the kier legs on the floor.
3. **Lower cost maintenance.**
   All parts are more easily accessible. The pump and motor are off the floor away from possible floor and moisture conditions.

For boiling or bleaching all types of cotton goods from gauze to heavy twills, the new Allen "Unit-Package" kier has no rival for efficiency and low-cost operation. Sizes up to 5 ton capacity.

Write today for complete information.

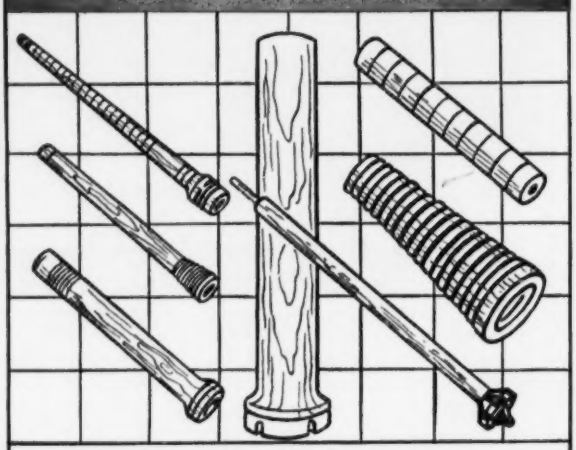
ALLEN WORCESTER

WILLIAM ALLEN SON'S COMPANY
WORCESTER 1, MASS.

Makers of the famous ALLEN KIERS

ESTABLISHED 1872

MONTICELLO BOBBINS
"Engineered For Service"



FROM CARD ROOM BOBBINS TO OUR LATEST PATENTED PLASTIC BASE SKEWER "ENGINEERED FOR SERVICE" WE CAN EXTEND THE LENGTH OF YOUR BOBBINS GIVING YOU A COMPLETE NEW TOP BEARING

MONTICELLO BOBBIN COMPANY
MONTICELLO, GEORGIA

The ONLY manufacturer of Card Room Bobbins in the South

REDUCE COSTS AND INCREASE PRODUCTION WITH OUR ABC HAIRON CHECK STRAPS

REGULAR

ABC HAIRON CHECK STRAPS last longer by actual Mill Tests. As much as 2 to 4 times longer than competitive straps.

ENDLESS

ABCO ENDLESS CHECK STRAPS. Two-ply thick, cemented and stitched for long, dependable service and less stretch.

CURVED

ABC HAIRON CURVED CHECK STRAPS. Cut from the same foreign Hairon Leather as our regular ABC HAIRON CHECK STRAPS.

ATLANTA BELTING COMPANY
508-510 WHITEHALL ST., S.W., ATLANTA, GEORGIA

SUPPLIERS News
WHAT THEY ARE DOING

sq ft office space and 45,000 sq ft of manufacturing, storage, and shipping areas, all located on a single floor.

Recently appointed as sales representatives for the **Metlon Corp.** were Robert C. Blezard, New England territory, and Harry C. Leswing, who will work in Pennsylvania.

Samuel B. Roberts recently joined the staff of **Lockwood Greene Engineers, Inc.** He was previously with Celanese Corp. of America as chief engineer.

E. Prentys Word, 2307 Friendly Road, Greensboro, N. C., now has the territory of Virginia, North Carolina, and South Carolina for **Lunkenheimer Co.**

Mars Engineering, Inc., has added a dust and fume control division to its services.

McKiernan-Terry Co. has appointed B. M. Jones of Jones & Hunt, Inc., exclusive sales representative in the New England territory.

E. J. Wood has been added to the New England sales staff of **New York & New Jersey Lubricant Co.** His territory includes Maine, New Hampshire, and northern Vermont.

Mr. Wood

Miller Motor Co. has changed its name to **Miller Fluid Power Co.** It was felt that the new name more accurately describes the company's present activities and products.

More than 350 managers and other supervisory personnel assembled recently for the annual managers' conference of **Orkin Exterminating Co.** In reviewing the progress of the firm, vice-president Perry Kaye

Are You Getting a Fair Day's Work for a Fair Day's Pay?

As Production Engineers we specialize in the utilization of

LABOR — EQUIPMENT — MATERIAL

Our list of clients reads like the Blue Book of American Manufacture, and in our files are many expressions as to our service and results accomplished, like the following:

"They increased the effectiveness of our plant very much and we are well pleased with the results."
AN IMPORTANT MANUFACTURER OF COTTON YARNS

Write for a free copy of "Labor and Management Benefit by Industrial Engineering Principles," and our booklet "A Fair Day's Pay and in return A Fair Day's Work".

AMERICAN ASSOCIATED CONSULTANTS, Inc.

D. S. KEOGH, President — 250 PARK AVENUE, NEW YORK 17, N. Y.
GRANT BUILDING, PITTSBURGH, PA.
H. B. CRAFT, Vice President and Manager of Operations — 30 CAMDEN ROAD, ATLANTA, GA.

HOW ANDERSON SHIELDS INCREASE SPINNING ROOM EFFICIENCY

Spinning rooms using Anderson Shields save time and money, and prevent disruption when unnecessary breaking, chipping, and splitting of bobbins and spools is avoided. In a year's time these items alone can amount to a surprising sum . . . Insist on Anderson and get the best protection metal shields afford . . . Watch your spinning room efficiency increase!

TEXTILE SHIELD CO., INC.

Metal Protection for Wood Turnings

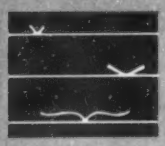
J. N. ANDERSON, *Treas.*
LAWRENCE, MASS., U.S.A.

ABINGTON
AUTOMATIC
HAND KNOTTER

50% SAVINGS of actual tying time over hand tying. No manual tension.

Ties a WEAVER'S KNOT

in wide range of sizes and varieties of natural and synthetic yarns. Considerable gain in winding production.



KNOTS are the smallest obtainable, and *always uniform in size.* Tails are clipped absolutely even, can be any desired length.

2 FREE OFFERS:

A **Free sample knot card** from a bobbin or fair sample of your yarn;

B **Free 30-day trial** of the Abington Hand Knotter.

Send yarn samples to

ABINGTON TEXTILE MACHY. WORKS
NORTH ABINGTON, MASS.

OR
LIBERTY LIFE BUILDING, CHARLOTTE

SUPPLIERS *News* — WHAT THEY ARE DOING

stated that more than 40 new offices were established in the past year.

George H. Eudy, previously with F. H. Ross Co., has joined **Onyx Oil &**

Mr. Eudy

Chemical Co. as southern representative.

Pittsburgh Coke & Chemical Co. recently acquired land near Spartanburg, S. C., for construction of a building to house its fine chemicals division. It is anticipated that the new laboratory, warehouse, and office will cost about $100,000.

Alexander J. McCarthy was recently elected secretary of **National Adhesives Ltd.,** a subsidiary of **National Starch Products Inc.** He has been with the firm since 1947.

J. H. Canady, formerly with Montgomery (Ala.) Cotton Mills and Avondale Mills, Sylacauga, Ala., has joined **Product Sales, Inc.,** Whitman, Mass. His territory includes Alabama, Georgia, Tennessee, and Mississippi in the sale of the Climax ball bearing and Cleandraft top rolls for roving and spinning frames, as well as "Cleanalign," which is a one-piece saddle arrangement for spinning frames.

Arthur F. Ratzer has been named vice-president of **Pyrene Manufacturing Co.,** makers of fire extinguishing equipment. He was with the London firm in 1935, joining the parent company in America in 1950. Maynard A. Laswell, vice-president of the C-O-Two Fire Equipment Co., is now also vice-president in charge of sales of the Pyrene firm.

Stephen T. Whittier II has joined the sales division of the **Pneumafil Corp.** and will be concerned with

NO OILING IN THIS MILL

One 600,000-spindle mill has been using Whitehead Permalube Saddles and Nebs for two years on *hardened-steel* rolls. Ends down have been reduced from 30 to 15. Frames are cleaned only once in several weeks, instead of twice daily. And oiling costs have been completely eliminated. Whitehead Permalube Saddles and Nebs can do the same for you. Write for complete information.

Coleman Co., Box 3597, Greenville, S. C.
Harry A. Haynes, Box 1724, Chatt., Tenn. (Ga.-Ala.)
Matthews Equip. Co., 93A Brdwy., Prov., R. I.
Don O'Hair, Box 8254, Charlotte 8, N. C.

WHITEHEAD ENGINEERING CO.
P. O. BOX 488
EMORY UNIVERSITY, GA.

"ME? UNEVEN?"

"Why, I ought to butt you one right in the hasta la vista for a crack like that!"

Take it easy, el Toro. We're not hunting for trouble. Just stating the facts. The flanks of *any* steer are uneven in places—that's why we developed our EVENIZED PROCESS for leather used in our aprons. Try HOOD aprons (Bradford, French, Converter) and see the difference!

HOOD FOR COMB CIRCLES.

HOOD EVENIZED APRONS

19th & Westmoreland Sts. Philadelphia, Pa.

HIGH SPEED MOVIES SHOW CARDING ACTION AT *BENJAMIN BOOTH COMPANY* EXHIBIT IN ATLANTIC CITY

Feature of Benjamin Booth Exhibit at Atlantic City—Location 347-348.

Special high speed movies that give viewers an easy-to-follow picture of what happens in a carding operation will highlight the Benjamin Booth Company exhibit at the American Textile Machinery Exhibition, Atlantic City, N. J.

Cut from hundreds of feet of film made during Booth Company research and at actual mill installations, this short movie shows the results of tests made on many types of stock and blends. Visitors to the Booth Company exhibit will find the film both interesting and valuable in answering questions they have had on the subject of carding.

The exhibit will also feature the complete range of Booth developments including the famous STRIP-O-MATIC in both straight and bent-tooth designs. The new bent-tooth STRIP-O-MATIC will be of particular interest to those visitors who prefer a knee-type clothing.

Visitors will also have the opportunity to see bent-tooth STRIP-O-MATIC made. A card clothing machine on display will be operating at low speed to permit detailed observation of the manufacturing process.

Plan to visit the Booth Company exhibit at the Atlantic City Exhibition. It will be open April 26-30. You'll learn many ways to add new economy . . . . and productivity to your carding operation. In addition to STRIP-O-MATIC you'll find a complete line of conventional clothing for all types of fibers. You'll see proof of over 60 years of continuous contribution to the Textile Industry.

BENJAMIN BOOTH CO.
Allegheny Ave. at Janney St.
Philadelphia 34, Penna.

sales promotion and analysis for the company and its associate, the Uster Corp.

The Watson-Park Co., an affiliate since 1952, has merged completely with **Reichhold Chemicals, Inc.** Its Ballardville, Mass., plant will hereafter be the headquarters of Reichhold's New England division, with Ralph T. Urich as general manager.

Robertshaw-Fulton Controls Co. has appointed Robert O'Hara to the Detroit staff as sales engineer. Joseph C. McCarthy of Toronto is now Canadian sales representative for the Robertshaw Thermostat, American Thermostat, and Grayson divisions. Freedoms Foundation awards were recently won by Grayson Controls Division, Lynwood, California, for its employee publication, "Relief Valve," and by its editor, Joseph McMillan. The Robertshaw Thermostat division won a George Washington Honor Medal for increasing appreciation for the American way of life through its employee publication, "The Robertshaw Symbol." Frank H. Post has been made sales manager in charge of all sales for the Robertshaw-Fulton thermostat division and American thermometer division of the company.

Rumford Chemical Works has appointed Robert P. Beaven chemical division sales manager. William Milne, who has served as textile consultant for some time, is now a member of the sales staff.

Mr. Milne

John A. Mackey, formerly works manager, has been appointed assistant vice-president of **The Singer Manufacturing Co.** He has been with the firm since 1919. Ernest C. Cain, salesman in the Atlanta manufacturing trade department and with Singer since 1918 in various capacities, has retired.

Alan A. Hutchings, sales manager, was recently elected to the newly created position of vice-president in charge of sales for **F. J. Stokes Machine Co.** Walter E. Rayher has been

Orr SLASHER Cloth
With Special Chemical Treatment
Something New and Better

• Slasher Cloth is an important maintenance item in a cotton mill. With the introduction of ORR Slasher Cloth with Special Chemical Treatment, many of the problems which have pestered the slasher room foreman have been eliminated.
The slasher room foreman, in order to satisfy the superintendent and the cost department, must have available a Slasher Cloth that:

Dresses the yarn properly.
Holds its width. No shrinkage.
Maintains level production performance
Starts fast — lasts long.

ORR Special Treated Slasher Cloth maintains uniform dressing properties, resists bacteria and steam degradation, maintains dimensional stability. Discuss your Slasher Cloth problem with your ORR representative.

Distributed by
J. S. FALLOW & CO.
279 Union St., New Bedford, Mass.
OLIVER D. LANDIS
718 Queens Rd., Charlotte 7, N. C.
Telephones: 3-0958—3-4557
FRED E. ANTLEY
Box 802, Greenville, S. C.

MANUFACTURED BY
THE ORR FELT & BLANKET CO.
PIQUA, OHIO, U. S. A.

Industrial Woolens by Orr
STARTS FAST — LASTS LONGER

STAINLESS STEEL

SMALL WARE

FOR THE DYEHOUSE

Ruggedly Built for SEVERE SERVICE

Welded, reinforced construction gives Blickman small ware extra durability to withstand hard daily use in the busy dyehouse. For sizes and specifications send for our small ware circular.

STAINLESS STEEL PAILS
Built to take a beating. Welded construction for extra strength. Round corners for easy, thorough cleaning. Made of #18 gauge stainless steel for corrosion resistance. Ears are formed under rolled rim of the pail and transmit part of the load to the rim. Capacity to 20 quarts. Write for Bulletin 7028.

STAINLESS STEEL BUCKETS
Easy to clean. For extra strength quarter inch thick reinforcing bands are welded at top and bottom. Handles of ½ inch diameter mild steel rod are welded to upper reinforcing band. Round corner bottom speeds cleaning. Built of heavy gauge stainless steel. Capacity to 100 gallons. Send for Bulletin 7029.

STAINLESS STEEL DIPPERS
Made to withstand rough handling. Hemispherical bowl of #16 gauge 18-8 stainless steel with #16 gauge stainless tapered handle-socket welded on. Capacities 1 pint to 4 quarts. Handle of 4 quart size reinforced. Send for Bulletin 7030.

Write for further information

S. BLICKMAN, INC. 204 GREGORY AVE. WEEHAWKEN, N. J.

Manufacturers of stainless steel textile equipment, dye boxes, linings, cylinders, dry cans, rolls, hoods, tanks.

Better

IDENTIFICATION BANDS

for your

ROVING CANS

IDENTIFICATION BANDS OF UNITED ELASTIC WEBBING FEATURE

- the most in service
- a very attractive price
- well-made, firmly-woven construction
- securely sewed laps
- any desired color
- bright, solid, even colors
- fast-to-light, non-fading dyes
- easily recognized at a distance
- easily removed and transferred

If you will specify the can diameter; and the color, width and quantity of bands desired; we will submit samples and quote prices.

UNITED ELASTIC CORPORATION

EASTHAMPTON, MASS.

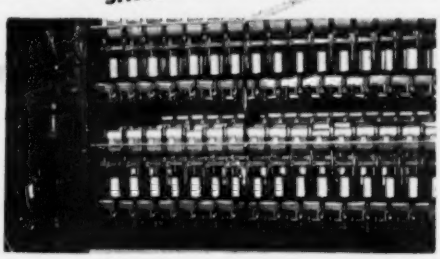
Sales Agent:

Roy Schrimshire

P. O. Box 906, Columbus, Georgia

TON-TEX SPINNER BELTS

Standard on Twisters and Doublers since 1926



Lapless Endless — Factory made to your size without a lap.

Roll Stock — For splicing endless on your machines. Complete Ton-Tex vulcanizing system available, including portable vulcanizing plate, tools and cements.

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SUPPLIERS News — WHAT THEY ARE DOING

transferred from the Philadelphia to the New York district office as senior sales engineer. Harry O. Walp, Jr., is now senior sales engineer in the New England district office.

C. R. MacDonald has retired from the partnership of **J. E. Sirrine Co.** New partners in the firm are John H. Bringhurst, Jr.; Harrison S. Forrester; and Murray M. Stokely.

A new roll covering plant is being built by **Stowe-Woodward, Inc.,** Newton Upper Falls, Mass., at Griffin, Ga. The plant will be devoted exclusively to the compounding and application of rubber roll coverings, and will be complete with modern equipment. The company will produce rolls in a wide range of sizes up to 70" in diameter and 310" in length. No change in the operation or personnel of the main plant is expected.

H. D. Fritchman was recently appointed direct factory representative

Mr. Fritchman

of the **B. Snowiss Fur Co.** The addition is made primarily to maintain closer cooperation between the company's present sales organization and the eventual users of shuttle fur in the mills.

Raymond J. Mitchell, with the firm since 1940, has been named manager of **Sandoz Chemical Works, Inc.'s** Cincinnati branch. Arthur A. Barker has been appointed technical supervisor of that office.

Taylor Instrument Companies have established a subsidiary in Australia known as Taylor Instrument Companies of Australia Pty. Ltd. W. E. Kirkby is managing director.

Richard H. DeMott, chairman of the board and president of **SKF Industries, Inc.,** was recently presented with the Stevens Honor Award, given each year by Stevens Institute of Technology to outstanding figures in American life.

Murray Moore of Sylacauga, Ala., formerly superintendent of several

Mr. Moore

textile mills, has joined **Talledega Foundry and Machine Co.** to sell their new textile conversion units and Talledega bunch builders.

Standard Pressed Steel Co. has announced the creation of a wholly owned subsidiary, **Standco Canada, Ltd.,** whose headquarters are at 193 Bartley Drive, Toronto. General manager is James P. Price, a vice-president of the parent company.

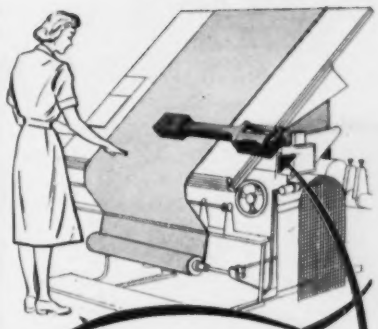
Dick Levi and Morris L. Hirsh have been named vice-presidents and Robert J. Stein has been made treasurer of **Star Woolen Company.**

G. H. Batchelder, formerly manager of the Boston office of the **A. E. Staley Manufacturing Co.,** has taken over new duties there at his own request. He is succeeded as manager by R. E. Kilty.

Stauffer Chemical Co. recently started operations at its new $3,500,000 plant in Louisville, Ky. Perchlorethylene, carbon tetrachloride, and hydrogen chloride will be produced in tank car quantities. H. L. McLean, formerly manager of the Niagara Falls plant, is manager of the new facilities. The firm has also announced the removal of its New York offices from Lexington Ave. to 380 Madison Ave.

Synthane Corp. has appointed David Garrison to the Philadelphia district sales force. Mr. Garrison was previously a member of the research and development staff.

The one hundredth anniversary of the founding of **James Talcott, Inc.,** was recently observed with appropriate ceremonies. The firm has



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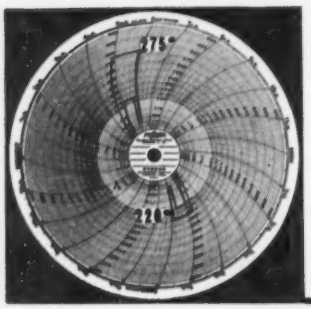

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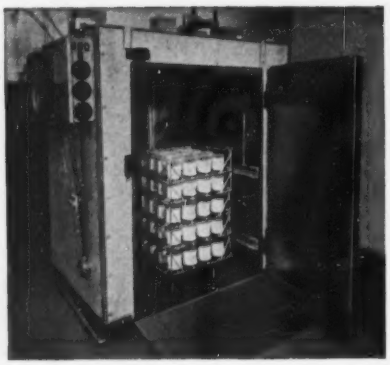
see this latest type



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WITH LOW COST
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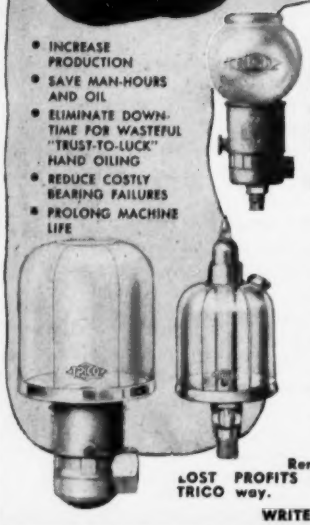

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1954 American Textile Machinery Exhibition.

long been identified with growth and progress in the textile industry, and is unusual in that a Talcott has always headed the organization. James Talcott, president, is a grandson and namesake of the founder.

Recent changes in the industrial chemicals sales organization of Carbide and Carbon Chemicals Co., a division of **Union Carbide and Carbon Corp.**, are: R. M. Joslin, from central division sales manager to assistant sales manager, industrial chemicals, with headquarters in New York; E. R. Young, central division sales manager; W. M. Anderson, Cleveland district sales manager; and R. G. Metz, district sales manager for the Indianapolis office.

The Virginia-Carolina Chemical Corp. has leased office space at 99 Park Ave., New York City, and will occupy as soon as the building is completed this spring.

The **Warner & Swasey Co.** has purchased the business and assets of **Industrial Scientific Co.**, 34 West 33rd St., New York City, and has formed the Warner & Swasey Research Corp. to carry on the work of the former company. William S. Tandler, operating head of Industrial Scientific Co., is president of the new corporation.

Washburn, New Bedford, Mass., has appointed Ralph Gossett & Co., Greenville, S. C., exclusive southern agents for the sale of shell rolls, temple rolls, warper beams, etc.

Westinghouse Electric Corp. has appointed George H. McBride manager of the Micarta division. He was previously assistant manager of the switchgear division at East Pittsburgh.

F. Eugene Banfield, Jr., recently retired from the **Whitin Machine Works.** Since joining the firm in 1935, Mr. Banfield held at various times the positions of engineering manager, works manager, vice-president, and director.

Wyandotte Chemicals Corp. has appointed Lawrence J. Healy, Jr., a technical service representative of the Michigan alkali division. Mr. Healy has been in the research division of the firm since 1948.

C. Gray Morgan, formerly with the Atlanta Army Quartermaster Procurement Service District office, has entered business with **H. C. Botting Associates,** 194 Pryor St., Atlanta, manufacturers' agents for the textile industry.

W. L. James was recently elected chairman of **Mellow Bromley & Co., Ltd.,** Leicester, England. He succeeds H. R. Backhouse, deceased.

R. H. Baker, formerly with Mooresville Mills, Inc., has joined **Geigy Chemical Co., Inc.,** Charlotte, N. C., in a technical capacity.

Textile Enterprises, publishers of a plant poster service designed for the industry, has appointed Fletcher V. Booraem of Beverly Farms, Mass., as representative in the New England and Middle Atlantic states. He has been handling public relations for the National Association of Cotton Manufacturers and Northern Textile Association for the past two years.

Elbert H. Roane has been promoted to assistant secretary of the **Trust Company of Georgia.** Mr. Roane has been in the factoring division of the company since 1942.

A new laboratory building for study of synthetic fibers has been completed by Carbide and Carbon Chemicals Co., a division of **Union Carbide and Carbon Corp.** New assistant district managers have been announced as follows: New York district, G. E. Kuehn and J. K. Marshall; Chicago, J. J. Berry; Cincinnati, H. H. Noren; San Francisco district, G. E. Bernard; St. Louis, H. E. Klein.

SUPPLIERS News
WHAT THEY ARE DOING

Westinghouse Electric Corp. has announced the appointment of Latham E. Osborne, formerly executive vice-president in charge of defense products, as executive vice-president. He also was elected to the firm's board of directors. Fifteen men have been sent to The Harvard Graduate School of Business Administration to take a special 16-month course for Master of Business Administration degrees. They will receive their regular salaries from the company, and will have their tuition, fees, and other expenses paid.

Ralph H. Stalbaum recently joined the sales staff of **F. J. Stokes Machine Co.,** in their New York district office. The company manufactures plastics molding equipment, pumps, etc.

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These lug supports are very light in weight, and give the highest possible strength and wear, because they are cast from the best known ALUMINUM ALLOY—copper-silicon and magnesium. Light, strong, and highly resistant to wear, they increase the life of picker stick and lug strap. Simple construction; no complicated parts. Costs little and does a fine job.

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MATTHEWS' TEXTILE FIBERS

Their Physical, Microscopic, and Chemical Properties

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HERBERT R. MAUERSBERGER
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COVERS ALL THE TEXTILE FIBERS—ANIMAL, PLANT, and MINERAL

Here is all the up-to-date data on every fiber used in the textile industry—including all the important new ones such as Dacron, Orlon, Dynel, Vicara, Acrilan, and X-51, as well as all the older synthetics like Nylon, regenerated rayon and the acetates.

Facts at Your Fingertips

Comprehensive cross-indexing of this newly revised 6th edition makes for ease of reference. Each fiber is covered from the point of view of history, production and utilization. Included are chapters on identification methods and quantitative analyses, X-ray diagrams of natural and synthetic fibers, and fiber testing methods. 25 of the nation's leading experts and more than a dozen of the foremost producing and marketing organizations collaborated to make this the most complete and authoritative work yet published.

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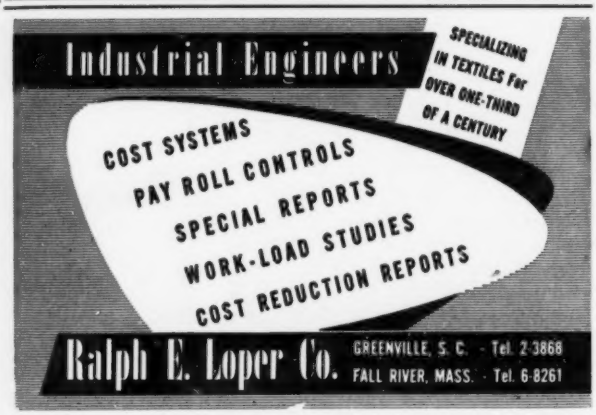

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The Nation's largest manufacturer of Sizing Compounds, Gums, Waxes and other kindred products for all warp yarns.

News in Brief

(Continued from page 141)

been gains in producing cotton with desirable fiber fineness, maturity, and other properties.

Wool Price Supports. The U. S. Department of Agriculture has announced that pulled as well as shorn wool will be supported through advance and nonrecourse loans under the 1954 wool price support program announced last December. Most other provisions of the 1954 program are similar to those in effect for the 1953 program.

Hosiery Fashion Scores. Paris and Rome are endorsing new American fashion in nylons. European designers have advised American manufacturers that the "go-with-everything stocking" is passe. Hosiery, they say, must complement the costume. NAHM has set forth that women can now buy and afford any number of pairs; therefore, hosiery becomes a part of the costume and not just a leg covering.

Knitted Outerwear Shipments. Shipments of knitted outerwear garments during 1952 represented an 8 per cent increase over the 1951 total, according to the Bureau of the Census.

1955 Cotton Council Meet. The seventeenth annual meeting of the National Cotton Council will be held at Hotel Shamrock, Houston, Texas, on January 31-February 1, 1955.

More Nylons for Hungary. Three times as many pairs of nylon stockings will be put on the market in Hungary this year as in 1953, the Hungarian national planning office has announced. Test production will also begin in the use of nylon and other synthetic materials for women's underwear.

Swiss Industries Fair. The 38th Industries Fair opens from May 8-18, 1954, in Basel, Switzerland, and will be in larger quarters since a new building has been added. The machine tool industry takes turns with the textile machinery industry which will occupy hall No. 6 this year.

Match Folder — Coronation — More Business! An unidentified Texan, waiting patiently to view Queen Elizabeth II's coronation last summer, discarded a Yankee match cover and boosted business for a Texas cotton broker, according to a story from Galveston. American papers featured the story of a reporter's discovery of the little match book, lying on the paving stones before Buckingham Palace, with a news story which began, "The eyes of Texas are on the Coronation." "Many new customers contacted me as a result of the nationwide publicity of the match book that traveled to see the Queen," wrote E. A. Hendrie, a cotton broker, in submitting his entry in the 1953 contest sponsored by the match industry.

Few Canadian Exports. In spite of vigorous efforts in many mar-

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with the new Trigger
SAXL
TENSION METER
Quickly—Correctly In Small Space

METERS FOR ALL TENSIONS
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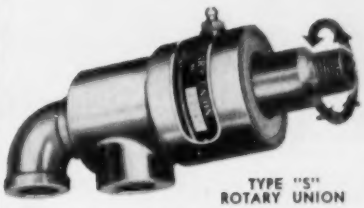
TELEPHONE HARVARD 43

A rotating steam or cooling joint that goes bad before its time means dollars out of your pocket . . . dollars in lost machine time, lost man hours, and lost production.



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The ROTARY UNION* Prevents These Unnecessary Losses

It is self-aligning and self-adjusting. It provides a positive mechanical seal without packings of any kind. ROTARY UNION construction relieves stress on moving and sealing parts and assures long, trouble-free service.

The steam joint is the heart of your machine, and may be its weakest link. Avoid loss of production by standardizing on the ROTARY UNION. The best costs less. Call our nearest office or write Dept. 4T for Catalog. Remember, drips cost dollars.

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TEXTILE BRUSHES for EVERY NEED

Solve all your textile brush problems by one stroke with the complete service we render for all mill operations. Gastonia Brushes are always dependable.

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Solid back construction,

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- *Simple, Fail-Safe, Hi or Lo Level Control*
- *No Moving Parts, Only One Radio Tube*
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The Fielden TEKTOR provides constant, accurate level indication or control of any material—liquid, divided solid or interface, conducting or non-conducting, wet or dry. Offers a low cost solution to practically every problem of fixed level control or limit alarm without need for special apparatus. Operates visual or audible alarms, motor starters, solenoid valves, timers and other equipment simply, accurately by means of a highly stable capacitance operated relay circuit. Does not depend on electrical conductivity. Ideal for remote control or warning. Provides all the accuracy needed at a sensible price. Thousands now in use. Write for detailed information to Dept. S.

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Stainless Steel Dye Tubes

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234 S. CHAMPLAIN ST.
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kets, the Canadian textile industry has never been able to build up a significant export business, according to the Primary Textiles Institute of Canada. Operating in a high cost economy, Canadian mills have more than sufficient difficulty competing with the products of foreign industries operating under low wages or mass production in the Canadian market. This is a situation which does not offer much possibility of competing with these foreign industries abroad, according to the Institute.

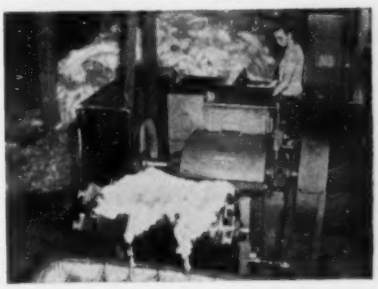
Use of "AS" Mark. The American Standards Association board of directors has voted to permit use of the certification mark "American Standard—AS" by individual manufacturing companies. Use had been limited to associations and societies only.

List of Loan Movies. The Princeton Film Center, Inc., has compiled a new list of free loan 16mm sound films. Many in full color, these motion pictures are informative and entertaining and suited for clubs, colleges, industrial, and adult audiences. A wide range of subject matter offers timely and interesting program material. All requests from users should be sent directly to The Princeton Film Center, Inc., Princeton, New Jersey.

Resumption of Silk Trading Studied. Proposed changes in by-laws providing for the resumption of trading in raw silk futures on the Commodity Exchange, Inc., have been approved by the Exchange's board of governors and have been submitted to the membership for study. Trading in silk futures on the Exchange has been suspended since July 25, 1941, when the government expropriated all supplies of raw silk for the national defense program.

Hosiery Near Record in 1953. Final reports for 1953 indicate that the hosiery industry is maintaining sales at a near record pace. In most categories of shipments, the year 1952 established all-time highs. The 1953 record, amounting to one dozen pairs for every man, woman, and child in the country, reached within 3.4 per

CUT
Thread waste
FAST
and Accurately



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THREAD WASTE CUTTER

To their basic characteristics of design and construction, safety and lower operating costs, have been added these new features your experience with synthetics will approve:

- Ends of feed rolls are shaped to urge the fibers toward the center of the cutting element.
- Feed apron raised so that gravity helps guide the waste from the apron to the bed knife edge.
- Main frame wider than the head to facilitate removal of fiber that might get to the main shaft bearings.
- Knives on the revolving cylinder of our #315 are spaced 180° apart to provide pockets to receive the cut waste without jamming.
- Long feed rolls put all bearings outside the guide box.

Made in models 315, 411, and 415 (according to volume of cutting required). These and other improvements are fully described and illustrated in Folder No. APP. 201, sent you free on request.

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- New Scott Clemson Flat Bundle Fibre Tester, with new features for accuracy and convenience in this important raw material test.
- World-accepted Model X-3 Scott Tensile Tester for single strand breaks on threads and cords—also tear test of woven fabrics.

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Card screens for all types of cards.
Cylinders for spinning twister quiller and spooler frames.

Picker screens—waste machine screens, Comber tins, Aspirators and Dampers.

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cent of that total. A considerable portion of the decline represented losses in the export field.

Man-Made Fiber Production Up. Man-made fibers produced in the U. S. during 1953 totaled 1,497,000,000 pounds, an increase of 7% over 1952, but slightly under the record high output of 1951, according to the Textile Economics Bureau, Inc. Viscose + Cupra rayon output was up 8½% during the year, but acetate was down 3%. The non-cellulosic fibers, however, showed a 14% gain to reach a new record.

Turnabout is Fair Play. Two pupils of a Stockholm gymnasium appeared one morning at school dressed in well-cut Scotch kilts. They defended themselves bravely against the schoolmaster's reproaches with the retort that the sexes possessed equal rights. "If girls may wear long trousers, then we can also put on skirts."

NKOA Organizes Expert Panel. The National Knitted Outerwear Association is expanding its technical services to the Association membership, according to a recent announcement. A panel of professional specialists in the field of knitting, mill management, personnel, and textile technology has been set up to provide guidance to mills on special technical problems, as handling new fibers, utilization of latest equipment, incentive plans, and employee training programs. Named to the panel so far have been T. A. Podbereski of Leetham, Simpson, Ltd., and B. Yavitz of Werner Textile Consultants. Panel members will be available to answer technical questions sent in by members of the association. Findings and conclusions of technical investigations will be presented in a manner that will be of greatest benefit to the entire industry.

Porous Vinyl. United States Rubber Company has started production on a new line of porous vinyl upholstery for use in transportation seating, institutional, home, and office furniture. The new Naugahyde is made on machinery developed in the com-

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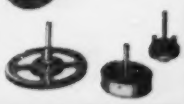
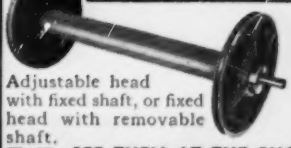


RIBBON LOOM BEAMS



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pany's Mishawaka, Indiana plant, so the porous breathable feature is part of the basic construction. It is said to assure complete seating comfort when used over foam rubber cushioning or deep springs.

AATCC Dues Increased. Present expenses of The American Association of Textile Chemists and Colorists amount to within a few cents of the average income per member from dues, a committee report revealed. Research staffwork is supported by the corporate members and is not included in these expenses. It was, therefore, voted by the Council to increase the dues for senior and associate members from $7.50 to $10.00 per year, starting with dues payable in November 1954. The additional revenue thus attained will be used to finance additional services and administration expenses.

Promote Sheep Raising. One way for U. S. woolen and worsted mill owners to aid in the effort to increase domestic wool production is to interest more farmers and ranchers in sheep raising. Most effective was this method that a southern mill manager utilized: A small flock of sheep was purchased and permitted to graze on the pasture land surrounding the mill. Upon invitation issued through the local papers, farmers of the community visited the plant to see the sheep. While on the grounds, the farmers were told some of the fundamentals of sheep raising and of the profits to be made. Since that time, several flocks have been started in the area.

Modernize for Competition. It is reported that to make the West German cotton weaving mills more capable of competition, modernization is most essential. At present only 15% of the looms in West Germany are fully automatic, while France has about 35% automatic looms, and the U. S. about 99%.

Greatest Wall Carpet. The greatest wall carpet in the world was recently exhibited in the town hall of Mecheln (Belgium). It is to decorate the great hall of the UN

honest, I know what I'm doing.

I'm a blacksmith. Yesterday a man asked me to air condition his mill. I said, "sure—you bet!" I installed air conditioning in the spinning room, and weave room. You ought to see it. All kinds of parts left over when I got through. It's a good thing he called me. He built his mill all wrong and I told him so too. Wait till his goods get to Worth Street. Will he be surprised. Will he be glad he asked a blacksmith to air condition his mill.

*If you'd let a blacksmith tinker, you'd let any maintenance man fiddle with your mill's air conditioning. Heaven help you, brother.

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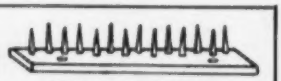

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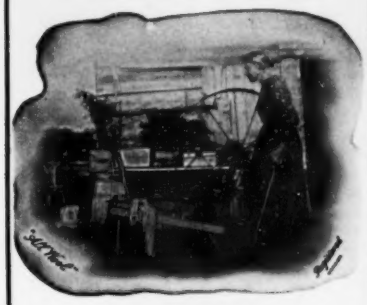

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Yarn Sales Improve. A decided improvement is reported in the carded cotton sales yarn industry in the past few weeks, and spinners have added millions of pounds to their backlog of orders. Substantial poundages were sold at prices that yielded some improvement in margins. The increase in unfilled order backlogs enabled many mills to increase their running time. A number of mills, however, reported they were completely unwilling to sell forward delivery goods at present prices.

—◆—

Executive Views the News

(Continued from page 145)

straining order by the Court—then this would seem to indicate that the various branches of the textile industry in New England are divided as to whether or not the Secretary of Labor should be stripped of his wage-fixing power.

To us, the entire matter seems to boil down to just that. If one man in America, whether he be the Secretary of Labor, the Secretary of State, or even the Secretary of the Army, is going to be given the power to "determine" wage rates in American industry, then things have, indeed, come to a pretty pass. The manufacturer would be quite naive who thought that the fixing of the minimum was all that was involved, because experience has long ago proved that the raising of the minimum means an increase in each job classification above the minimum, and that raises on government work mean cost increases in every type of production.

To take the opposite position and to argue that the Secretary of Labor should have this authority is to place the fate of industry in the hands of the Secretary of Labor. If he can "determine" $1.20 today, he can just about as easily "determine" $1.50 tomorrow. Where is the stopping place?

This, too, will be an interesting one to watch.

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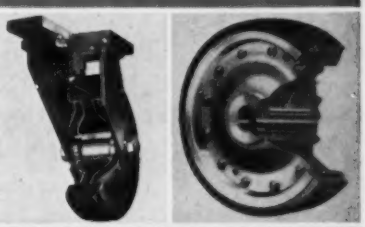

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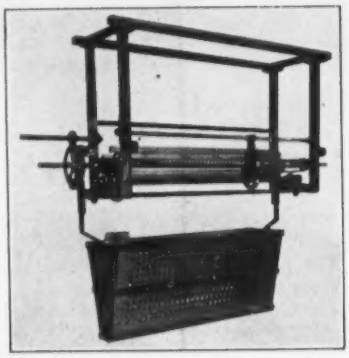

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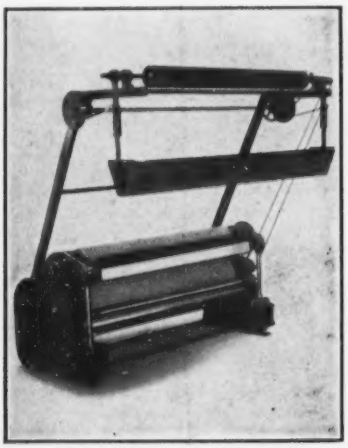

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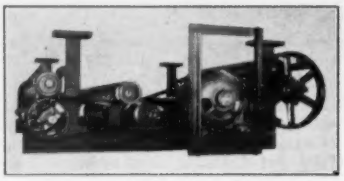

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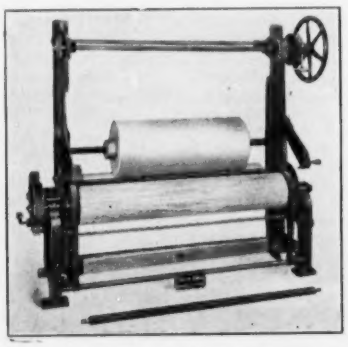
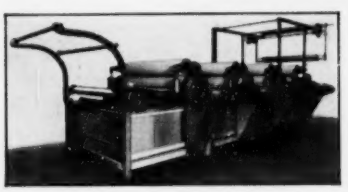


BIRCH TYPE SIMPSON WINDER

with air operated cut-off knife and transfer.



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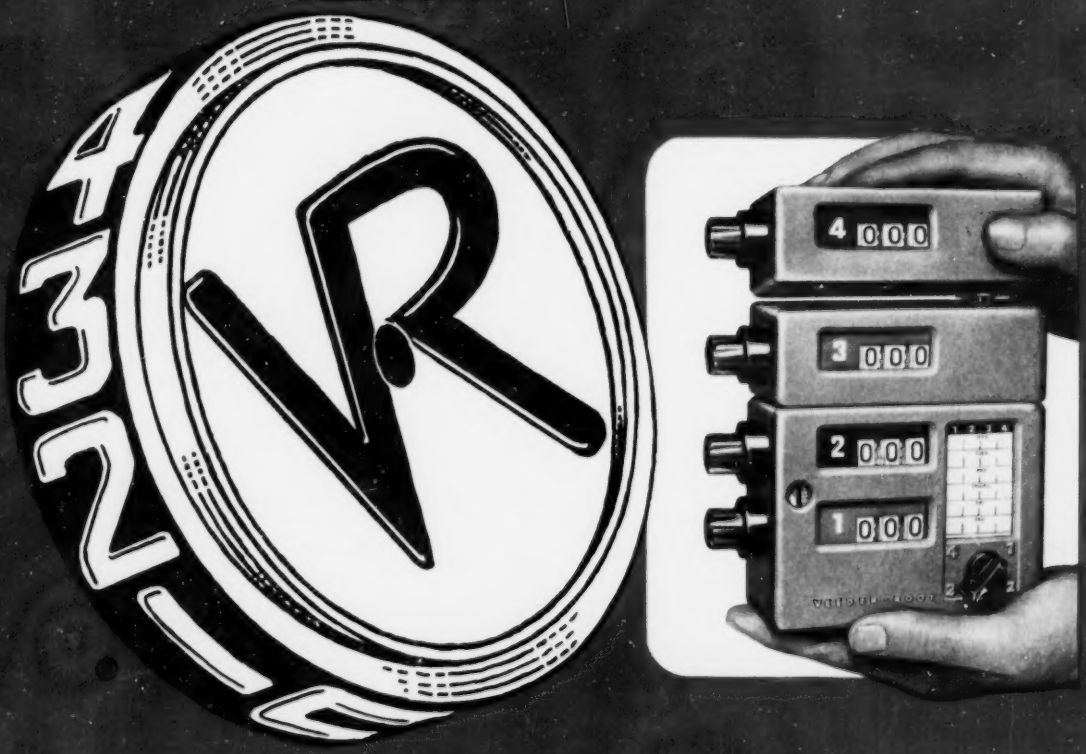

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